

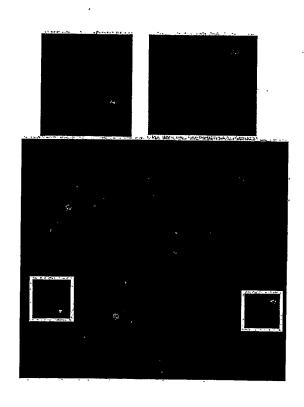
Genetic Position and location of BACs in fingerprint

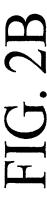
Position Build 33

Duplication interval Duplication interval

3/90

FIG. 2A





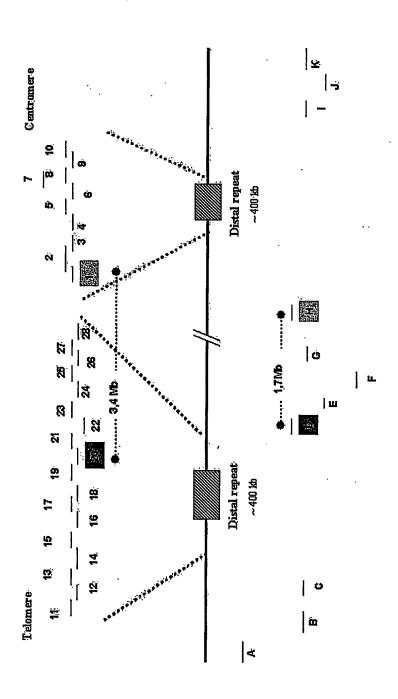


FIG. 3. Results of FISH Measurements

6/90

Panic Disorder	Patients			
Total number	Hz C	Het	Hz Rare	Frequency of Inverted form
47	14	22	11	47%
Controls				
Total number	Hz C	Het	Hz Rare	Frequency of Inverted form
173	64	93	16	36%

FIG. 4. Association results: Orientation at 8p23 Number Genotype R-squared p-value SG08S5 SNP 123 3.21E-25 0.644 SNP SG08S95 101 5.16E-20 0.641 M/I 114 DG8S269 0.617 4.80E-24 M/I 126 **DG8S163** 0.590 2.03E-23 DG8S197 M/I 120 0.563 2.34E-20 AF131215-2 M/I 116 0.544 4.99E-21 M/I 67 DG8S127 0.489 5.89E-14 SNP 124 0.472 SG08S120 1.75E-17 M/I DG8S179 91 0.471 1.85E-13 SG08S27 SNP 124 0.457 2.37E-15 DG8S261 M/I 88 0.456 6.63E-12 SNP 119 SG08S71 0.456 9.88E-17 SNP 125 0.448 SG08S32 2.61E-15 SNP 118 0.443 SG08S517 2.34E-15 SNP 120 SG08S70 0.442 · 5.74E-16 SNP SG08S102 119 0.440 1.16E-15 SNP 117 0.437 SG08S73 9.84E-15 SNP 120-0.436 SG08S76 6.37E-17 SNP 124 SG08S26 0.433 2.31E-14 M/I 83 0.404 DG8S242 2.34E-10 SG08S15 SNP 126 0.395 1.39E-14 M/I 122 0.370 DG8S257 2.27E-15 SG08S138 SNP 122 0.362 6.68E-12 M/I 121 0.349 DG8S161 6.81E-13 SNP 123 0.337 SG08S520 1.87E-11

SNP

SNP

M/I

M/I

M/I

DG00AAHBG

SG08S508

DG8S156

D8S1695

DG8S170

23

121

115

123

114

0.336

0.333

0.331

0.309

0.303

0.0046

8.52E-12

2.82E-11

8.65E-19

9.06E-11

8/90

	_															•						
Comments																						
Concordance																				•		
	l	· co	'n	'n	· cn	"	m	· co	(0	(0												
	Y.	Ž	Ϋ́Ε	Ű	Ŭ	Ĭ	Ű	Ϋ́	Ϋ́Ε̈́	XE Y	Ķ	Ϋ́Ε	Ű	Ϋ́Ε,	KES	Ϋ́	ĺЙ	Ϋ́	KES	Ϋ́	YES	YES
Inversion risk allel				e	e												<u>a</u>	<u> </u>	<u>a</u>	ż		<u>0</u>
•		_		Multiple	Multiple	_	_	<u>~</u>	~	۰.	۰.	-		_			Mulfiple	Multiple	Multiple	-		Multiple
Top LD marker		•	•	_			•	• •	٠.,		.,	(1)	· CV	0	N	N	_	-	2	. ~	. 2	2
	္သ	လ္သ	လ္ယ			လ္ပ	ပ္သ	S	လ္ယ	S	လ္သ	တ္သ	တ			Ś	!		S			ဟ
pəri.noɔ	7	0.367808 YES	15 YE	7	œ	3 YES	¥ ¥			8 YES			9 YES	_	ဖ	0.434783 YES	80	_	0.027665 YES		. ro	0.064497 YES
	30g 090	6780	0.48545	0.256887	0.436478	0.395693	0.559194	0.41041	0.558673	3.518088	396419	0.496053	0.57619	0.816804	0.452756	3478	0.032258	376081	2766	0.432947	0.18156	449
	0.5	0.3	o.	0.2	0.4	0.3	0.5	Ö	0.5	0.5	0.3	0.4	Ö	0.8	0.4	0.4	0.0	0.3	0.0	0.4	0	0.0
uoɔ#	740	730	378	726	795	743	397	586	392	387	391	380	735	726	381	713	682	694	741	604	705	845
peri.freq	82	31	3	8	23	48	-	66	25	92	53	93	27	94	23	35	17	62	17	60	<u>~</u>	
	0.60508	0.461131	0.587329	0.340502	0.523973	0.482818	0.6541	0.496599	0.646552	0.601695	0.508929	0.577193	0.646127	0.871094	3.530822	3.501695	0.065217	0.441379	0.052817	0.501859	0.234007	0.099278
1	Ι.	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
#aff	29	28	292	273	29.	291	292	294	29	295	112	285	284	256	292	295	184	280	284	269	297	277
p-val	-05	124	207	022	029	032	365	601	44	054	763	309	748	916	1 98	102	519	395	124	342	21	317
	4.32E-05	0.000124	0.000207	0.00022	0.00029	0.00032	0.000365	0.000601	0.001044	0.002054	0.002763	0.003309	0.003748	0.003916	0.004498	0.006102	0.006519	0.007095	0.007424	0.007642	0.007751	0.00817
1		_	_	32	=		_	_	_	_		_	_	_	_	_	_	_	_	_	_	
	.49537	.47085	.50855	.49355	1.4211	.42574	.49072	.41718	.44504	.40516	.57795	.38687	1.343	1.51561	1.3675	.30884	2.09302	.31082	.95983	.31953	.37711	1.5987
	7	_	_	~		~ .,	_	-	ν	_	-	_		_		_	رز ا		~ :	_	_	-
ələllA	J	-	τ-	ِ ن	7	N	~	7	(T)	0	~	က	7	0	7	7	4	0	ιĊ	~	7	ထ
					~ +						<u>.</u>											
Marker	173	197	13	33	215	က္ဆ	520	92	208	102	AHB	2	્ર	ထ္တ	909	5	2	&	ගු	27	င္တ	ಸ್
	SG08S7	JG8S197	SG08S73	388	AF131215-4	SG08S5	308S	308S	SG08S508	308S	G00AAHB	SG08S70	DG8S161	DG8S298	308S	308S	DG8S249	JG8S148)G8S269	DG8S127	SG08S93	J8S1695
L	თ შ	ĭ 1	ğ΄	<u>ă</u> :	¥	တ	8	S	S S	S	2	S	ä	2	S G	S	2	מ מ	20	8	SG	8

FIG. 5A. Results for Panic Disorder

FIG. 5B. Results for Panic Disorder

					9,	/9()	ï														
stnemmoc			allele not enoritie for in in in	dicie not specific for liversion						allele not specific for inversion						•						
Concordance	ı											:	alle				•	1				
nversion risk allek	YES	Multiple YES			Millinla	Multiple	Multiple	order AES	Multiple NO				Multiple Kare allele	Multiple	upie VES	3	Multiple			with aid	길	iple
Top LD marker	۳	} ≦	Ž	c	. Ē	Ī		ē c	ءَ آھ	- E	- 2				5 6 7	י כ) ¥		. V	<u> </u>	7 C	Multiple
penîreq	YES			0.355042 YES	0.057125	0.586758	0.241354	0.501912	0.034025	0.442881 VES	0.384542	6.361343 5.05E.07	0.580972	0.005528	0.636364	0.363636	0.041667	1.37E-07	0.458689 /	0.445844 VEC	0.775074 1ES 0.554156	0.631618 YES
" uoɔ#	392	780	780	476	779	876	694	523	867	604	726	234	741	814	396	396	468	730	_		_	_
pəri.freq	9.0	0.462898	0.202206	0.436306	0.03169	0.528428	0.191379	0.564626	0.057627	0.381041	0.441729	0.013697	0.522887	4.57E-15	0.695578	0.304422	0.020147	0.003533	0.526471	0.506803	0.493197	0.576786
#शी	295	283	272	157	284	299	290	294	295	269	_	_	284		_	_	_	_	_	_	_	_
jev-q	0.00892	0.010287	0.010326	0.010364	0.012974	0.013012	0.014561	0.014737	0.015013	0.015453	0.015593	0.016338	0.017797	0.020519	0.021168	0.021168	0.021506	0.023849	0.024789	0.024806	0.024806	0.025242
l.	1.33373	1.28932	1.39401	1.40604	3.540184	0.789193	743933	1.28699	1.73607	0.77441	1.28256	27512.1	7.790452	8.22E-13	1.30567	765893	.472897	25908.7	1.31206	1.27723	0.782947	0.794875
ələllA	m ·	4	0	o ·	4	7	, 7	0	12	0	7	16	0	2	က	7	4	2	0	α	10.	0
Marker	SGU8S51/	AF131215-2	AF131215-1	DG8S242	DG8S136	D8S516	DG8S148	SG08S39	D8S1130	DG8S127	DG8S232	DG8S137	DG8S269	D8S550	SG08S507	SG08S507	DG8S245	DG8S197	D8S1825	SG08S27	SG08S27	DG8S257

FIG. 5C. Results for Panic Disorder

																	•						
	Comments																						
	Concordance		Rare allele		YES			Rare allele	Rare allele		YES		YES		YES			YES		YES		Rare allele	YES
٠	Inversion risk allele	Multiple		Multiple	_		Multiple		Multiple	Multiple	_		Multiple	Multiple	Multiple	Multiple	_	Multiple	Multiple	Multiple	Multiple	Multiple	Multiple
	Top LD marker		_	~	7	8	~	0	~	2	0	0	<	<	<	=	0	<	_	<	<	<	~
	•	~	_		yes	_	~	7	~	~	3 YES	~	~!	_	<u>م</u>	~ 1	_		_	~1	~1	~	10
	penfreq	0.035152	0.015819	0.019945	0.446429 YES	0.553571	0.009186	2.30E-07	0.001183	0.009238	0.451498 YES	0.548502	0.095732	0.169521	0.039792	0.015012	0.04127	0.427061	0.016321	0.099472	0.004142	0.001332	0.313235
	uoɔ#	825	727	727	9	700	762	556	845	998	701	701	867	292	867	866	315	473	674	568	845	751	089
	pərl.fls	0.015909	0.032143	0.007143	0.5	0.5	7.72E-14	0.004166	0.00722	0.001678	0.503367	0.496633	0.067797	0.123984	0.061017	0.005034	0.008333	0.493711	0.005435	0.140244	5.65E-19	0.006849	0.358929
	វិវន#	220	280	280	297	297	142	240	277	298	297	297	295	246	295	298	8	159	276	164	277	292	280
	lev-q	0.026073	0.026116	0.02801	0.028331	0.028331	0.028377	0.028441	0.030127	0.031831	0.033807	0.033807	0.034226	0.035493	0.037716	0.037947	0.038339	0.038856	0.039967	0.04181	0.046136	0.04906	0.053394
	,	0.443736	2.06626	0.35351	1.24	0.806452	8.33E-12	18155.3	6.13816	0.180252	1.23132	0.812135	0.686966	0.69336	1.56804	0.33195	0.195216	1.30825	0.32936	1.47675	1.36E-16	5.17242	1.22755
	ələllA	2	∞	9	7	0	12	φ	4	16	0	7	œ	?	-12	4	80	-5	4	7	16	33	7
	Marker	D8S503	DG8S297	DG8S297	SG08S120	SG08S120	D8S351	DG8S159	D8S1695	D8S1759	SG08S26	SG08S26	D8S1130	DG8S221	D8S1130	D8S1759	DG8S307	DG8S153	DG8S277	DG8S192	D8S1695	DG8S265	DG8S257

10/90

11/90

						•								
	shnemeo:	0												
		ı												
	oncordance	\rfloor						<u>e</u>			•			
		1					;	alle			- 5 5 5 6	_		
	٠,	1		YES			1	Kar	YES	П	- >	E E	XES	
	nversion risk allek	4				٩								
				_		Australa								fulfinia
	op LD marker	╽	- (0	C	<u>ت</u> (≥ (>	~	c	1 <	> (7	2
		l		٠	S	·) (n i	ဟ	ď		ם מ	'n	cr
ı	hamma		D 1	0	5 YE	<u> </u>	4 40E 07 VEO	ב ב	Ű K	× X	Ι <u>Ι΄</u> - >	ŭ į	Ĭ	×
	panf.no:	֓֟֟֝֟֓֟֟֟֟֟֟֟֟ ֓֟֓	2 6	7.409325	3067	25	֓֞֜֜֝֓֜֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֓֜֓֓֡֓֡֓֡֓֡	ָרָ טָּי	427	670	025		0.522843	0.001318
		Š	5 6	2.4	0.5	0	; ;	<u> </u>	0.4	0.25	3	3 6	ი. ე	0.00
	uoɔ <u></u>	į	2 2	0.0	815	777	. 079	3	22	746	307	3 6	4	759
		l												
ı	aff.freq	5) <u>u</u>	3	22	99	۲. ۲.	3 5	£	മ്പ	7	: 5	y :	4
ĺ		7.27E-15	7.45825		0.484375	5244	0.003225		0.51845	0.288396	0.418644	45.00	0.0000	2.22E-14
		1	_											• •
İ	ils#	265	ă	Š	88	266	7.	5 5	7	53	295	202	3 1	276
	lsv-q	88	202		298	775	682	12	110	127	121	77	: 3	.16
ı		0.054739	0.05598		0.05598	0.079775	.081	OBEC		. 1 43,	0.150121	1956		7.265216
ı	او		7			_						_		_
l	_	.75E-12	20367		.830/93	3.838003	3913.	103	5	1.173	1.17317	1522	L	.08E-11
		1.	-		S. S	0.8	ಸ	~	٠`	,-	- -	+		<u>-</u>
	ələllA	7	0	•		0	?	7	- (7	0	~	O	P
	Marker	27	ස	Ş	3 9	92	ध	62		200	ĸ	92	5	2
		DG8S127	38S1	7000	200	8 2 2	38S2	38S1		200	.08S	.08S.	80.1	3
L		2	ă	2	ב ב	ב	۵	2	6	ט ט	SS	တ္ထ	ב	נ נ

FIG. 5D. Results for Panic Disorder

0.968347 1.02487 97 0.239428 5.16E-12 97

0.282932 8.68E-13 97

0.0154639 795

1.96E-14 795 2.74E-15 795

12/90

_			ă	•	ğ	5				
p-val		#aff	- aff.freq	#con	con.frea	H0.freq		_	<u>•</u>	marker
<u> </u>	<u>L</u>		affa			2	Z	info	allele	望
0.636132		96		81	0.65783	0.656009	0.223837	1	- 6	
0.227291 0.316779	1.23196 0.740298	96					1.45774	1		AC022239-5
0.412413		96					1.0022	1		AC022239-5
0.814911	0.843158	96 96					0.671834	1	-12	AC022239-5
0.863298	1.20792	96	,				0.0548008	1		AC022239-5
0.160568	1.41548	86					0.0296449	1		AC022239-5
0.421391	1.15389	86					1.96887	1		AC068974-2
0.367219	0.718343	86		574 574			0.646434	1	14	AC068974-2
0.23462	0.82084	86		574			0.813054	1	10	AC068974-2
0.860978	1.07122	86		574			1.41263	1	0	AC068974-2
0.134389	2.25E-14	86		574			0.0306702	1		AC068974-2
0.440332	0.677047	86	0.0232559	574		0.00606061 0.0325758	2.24108	1		AC068974-2
0.477172	0.51057	86	0.00581394	574		0.0106061	0.595417	1		AC068974-2
0.116188	3.37871	86	0.0174419	574	0.00522648		0.505319	1		AC068974-2
0.0433771	64445.2	86	0.00581335	574			2.46797	1		AC068974-2
0.597138	5.66E-11	86	4.94E-14	574			4.08064 0.279334	1		AC068974-2
0.597138	5.66E-11	86	4.94E-14	574		0.000757576	0.279334	1		AC068974-2
0.518787	2.23196	86	0.00581394	574		0.0030303	0.416305	1		AC068974-2
0.597138	5.66E-11	. 86	4.94E-14	574		0.000757576	0.279334	1		AC068974-2
0.160568	1.41548	86	0.139535	574		0.107576	1.96887	1		AC068974-2
0.421391	1.15389	86	0.313954	574		0.287879	0.646434	1		AC068974-2 AC068974-2
0.367219	0.718343	86	0.0465116	574	0.0635888	0.0613636	0.813054	1		AC068974-2 AC068974-2
0.23462	0.82084	86	0.395349	574	0.44338	0.437121	1.41263	1		AC068974-2
0.860978	1.07122	86	0.0465116	574	0.043554	0.0439394	0.0306702	1		AC068974-2
0.134389	2.25E-14	86	1.58E-16	574	0.00696864	0.00606061	2.24106	1		AC068974-2
0.440332 0.477172	0.677047	86	0.0232559	574	0.0339721	0.0325758	0.595417	1		AC068974-2
0.116188	0.51057 3.37871	86	0.00581394	574	0.011324	0.0106061	0.505319	1		AC068974-2
.0433771	64445.2	86 86	0.0174419	574	0.00522648	0.00681818	2.46797	1		AC068974-2
0.597138	5.66E-11	86	0.00581335	574	9.07E-08	0.000757576	4.08064	1		AC068974-2
0.597138	5.66E-11	86	4.94E-14 4.94E-14	574	0.00087108	0.000757576	0.279334	1		AC068974-2
0.518787	2.23196	86	0.00581394	574	0.00087108	0.000757576	0.279334	1	15 /	AC068974-2
0.597138	5.66E-11	86	4.94E-14	574 574	0.00261324	0.0030303	0.416305	1	-2 /	AC068974-2
	0.933961	93	0.145161	780	0.00087108	0.000757576	0.279334	1	13 /	AC068974-2
0.224689	0.81593	93	0.295699	780	0.153846	0.152921	0.0979812	1	0 /	\F131215-1
0.846815	1.0328	93	0.317204	780	0.339744	0.335052	1.47417	1	2 /	\F131215-1
	0.692307	93	0.0215054	780	0.310256 0.0307692	0.310997	0.0373201	1	-2 <i>F</i>	\F131215-1
0.271308	1.49821	93	0.0537635	780	0.0365385	0.0297824	0.539254			VF131215-1
0.100567	2.13967	93	0.0376345	780	0.0179487	0.0383734	1.21012			\F131215-1
0.673039	1.16949	93	0.0483871	780	0.0416667	0.0200458 0.0423826	2.69654	1		F131215-1
0.794508	1.09076	93	0.0591398	780	0.0544872	0.0549828	0.178068	1	8 A	F131215-1
0.716617	1.26229	93	0.016129	780	0.0128205	0.013173	0.06784	1	4 P	F131215-1
0.501936	1.77E-12	93	2.28E-15	780	0.00128205	0.00114548	0.131758	1	-6 A	F131215-1
	6.50E-10	93	4.17E-13	780	0.000641026	0.000572738	0.45084 0.225352	1	12 A	F131215-1
0342293	62457	93	0.00537562	780	8.65E-08	0.000572738	4.48322		0 A	F131215-1
0.187336	0.81879	98	0.484694	780	0.534615	0.529043	1.73844	1		F131215-1
0.152999	1.24434	98	0.454082	780	0.400641	0.406606	2.04209	1		F131215-2
	0.878137	98	0.0510205	780	0.0576923	0.0569476	0.148673	i		F131215-2 F131215-2
	1.69E-12	98	3.26E-15	780	0.00192308	0.00170843	0.710761	-		F131215-2 F131215-2
0.416268	2.00001	98	0.0102041	780	0.0051282	0.00569476	0.660829			F131215-2 F131215-2
0.244447 (97	0.386598	795	0.430189	0.425448	1.35476	1		F131215-2 F131215-4
0185408	1.4314	97	0.525773	795	0.436478	0.446188	5.54432			F131215-4
).482884 0175263 (97 97 (0.0670104	795	0.0811321	0.0795964	0.492344			F131215-4
		M/ 1	D.00515467	795	0.0295597	0.0269058	5.64289	- '		· · · · · · · · · · · · · · · · · · ·

0.0151345

0.00336323

0.00280269

1.15295

0.00157459

5.64289 1 8 AF131215-4 0157459 1 16 AF131215-4 1.38396 1 18 AF131215-4

1 10 AF131215-4

0.0150943

0.00377358

0.00314465

13/90

FIG. 6B. Allelic Association for Bipolar Disorder

FIG. OB. A	MENU AS	JUCI	ation for Bi	polai						·
_			aff.freq		con.freq	H0.freq				<u> </u>
p-val		#aff	£ £	#con	Ē	Ę.		.0	allele	marker
	<u> </u>		<u>a</u>	₩		呈		info	膏	E
0.631289	5.34E-10	97	3.36E-13	795	0.000628931	0.000560538	0.230316	1		131215-4
0.282669 0.268777	1.36545 0.834559	96	0.0833332	801	0.062422	0.06466	1.15421	1		F18802 9- 1
0.239275	0.634559	96 96	0.307292 0.015625	801	0.347066	0.342809	1.22298	1		-188029-1
0.594626	1.10444	96	0.013625	801 801	0.0293383 0.202247	0.0278707	1.38486	1		188029-1
0.549289		96	0.166667	801	0.202247	0.204013 0.182274	0.283178 0.358593	1		F188029-1
0.821729	0.907332	96	0.03125	801	0.0343321	0.0340022	0.0507699	1		F188029-1 F188029-1
0.171693	1.53673	96	0.0729167	801	0.0486891	0.0512821	1.8681	1		188029-1
0.31964	1.29493	96	0.104167	801	0.082397	0.0847269	0.990419	i		188029-1
0.0744251	7.99E-12	96	7.05E-14	801	0.00873908	0.00780379	3.18262	1		188029-1
0.634164	4.00E-10	96	2.50E-13	801	0.00062422	0.000557414	0.226457	1	6 AF	188029-1
0.857216 0.714284	1.02828 1.15403	95 95	0.431579	804	0.424751	0.425473	0.0323707	1		188029-10
0.714284	0.887774	95	0.0421052 0.378947	804 804	0.0366915	0.0372636	0.134035	1		188029-10
0.691359	0.869309	95	0.0473684	804	0.407338 0.0541045	0.404338 0.0533927	0.572316	1		188029-10
0.244804	1.36547	95	0.547.5554	804	0.0341045	0.0533927	0.157618 1.35271	1		188029-10 188029-10
0.503764	4.00E-10	95	4.98E-13	804	0.00124378	0.00111235	0.446998	1		188029-10
0.636436	5.51E-10	95	3.43E-13	804	0.000621891	0.000556174	0.223433	i		188029-10
0.717684	1.07492	94	0.18617	795	0.175472	0.176603	0.130723	1		188029-12
0.793631	0.926871	94	0.0744681	795	0.0798742	0.0793026	0.0684341	1		188029-12
0.634645	1.07691	94	0.579787	795	0.561635	0.563555	0.225814	1	-12 AF	188029-12
0.438125 0.862499	0.844172 1.20931	94 94	0.138298	795	0.159748	0.15748	0.601188	1		188029-12
0.775155	0.843242	94	0.0053191 0.0159574	795 795	0.00440252	0.00449944	0.0299959	1		188029-12
0.196727	0.82086	97	0.536083	809	0.0188679 0.584672	0.0185602 0.57947	0.0815895	1		188029-12
0.248982	1.19447	97	0.43299	809	0.389988	0.394592	1.66651 1.32901	1		188029-7 188029-7
0.552933	1.47921	97	0.0154639	809	0.0105068	0.0110375	0.35209	i		188029-7
0.53362	0.55371	97	0.00515461	809	0.00927071	0.00883002	0.387493	i		188029-7
0.340916	1.01E-10	97	2.51E-13	809	0.00247219	0.00220751	0.906983	1		188029-7
0.191893	3.36041	97	0.0103093	809	0.00309024	0.00386313	1.70302	1		188029-7
0.639475	1.09324	63	0.5	449	0.477728	0.480469	0.219429	1	0 AF	287957-1
0.0672424 0.880581	0.692098 1.06508	63 63	0.309524	449	0.393096	0.382812	3.34908	1		287957-1
0.475142	1.51682	63	0.0555556 0.0317459	449 449	0.0523385 0.0211581	0.0527344	0.0225698	1		287957-1
0.0257079	3.04845	63	0.0555556	449	0.0189309	0.0224609 0.0234375	0.509994 4.97556	1		287957-1
0.423074	1.60292	63	0.0317461	449	0.0200445	0.0214844	0.641761	1		287957-1 287957-1
0.945167	0.949461	63	0.015873	449	0.0167038	0.0166016	0.0047303	1		287957-1 287957-1
0.11589	1.67752		0.065	867	0.0397924	0.0423992	2.472	1	-12 D8	
0.968953	0.993269		0.245	867	0.246251	0.246122	0.00151491	1		S1130
0.818831	1.04133		0.235	867	0.227797	· 0.228542	0.0524635	1	-8 D8	S1130
0.215316	0.78042		0.155	867	0.190311	0.18666	1.53532	1	0 D8	S1130
0.973375 0.720807	0.991546 0.927687		0.095 0.145	867	0.0957324	0.0956567	0.00111396	1		S1130
0.441571	1.33774		0.145	867 867	0.154556 0.0340254	0.153568	0.127721	1		S1130
0.978816	1.0202		· 0.01	867	0.00980392	0.0351603 0.0098242	0.592198 0.000705048	1		S1130 S1130
0.0330666	79563.9		0.00499945	867	6.32E-08	0.000517063	4.54233	1		S1130 S1130
0.418155	4.07E-12		7.05E-15	867	0.0017301	0.00155119	0.655494	1		S1130
0.837578	1.03489	99	0.282828	839	0.275924	0.276652	0.0420219	1		S1469
0.909489	1.01727	99	0.469697	839	0.465435	0.465885	0.0129239	1		S1469
0.405936	1.18419	99	0.171717	839	0.148987	0.151386	0.69067	1	8 D8	S1469
0.237766	0.657424	99	0.0404039	839	0.0601907	0.0581023	1.39379	1		S1469
	1.27538 0.546562	99 99	0.0151515 0.0202021	839	0.011919 0.0363528	0:0122601	0.143456	1		S1469
0.504045	1.40E-12	99	1.67E-15	839 839	0.0363528	0.0346482 0.0010661	1.5911	1		S1469
0.20041	0.81685	90	0.422222	845	0.472189	0.46738	0.446409 1.63938	1		S1469
0.891445	1.04602	90	0.0611111	845	0.0585799	0.0588235	0.0186255	1		S1695 S1695
	0.899543	90	0.105556	845	0.115976	0.114973	0.177455	1		S1695
0.666936	0.921986	. 80	0.216667	845	0.230769	0.229412	0.185207	1		S1695

14/90

,	FIG. 6C.	Allelic	Association	for	Binolar	Disordor
		1			CIPCIAI	Disorder

1	FIG. 6C.	Allelic As	soci	ation for B	ipola	r Disorder					
				5		ğ	j-r				
ł	<u>re</u>		*	aff.freq	Ē	con.freq	H0.freq	•		ω	marker
1	p-val		#aff	#	#con	5	÷:	N	info	allele	ar
٠	0.167565	1.7815	90	0.0444445	845	0.0254438			ᄩ		<u>Ē</u>]
	0.00785119	2.01962			845			1.9046	1	12 D8S1695	
	0.968082		90	0.00555556	845		0.00534759	7.06711 0.00160115	1	6 D8S1695	
	0.935689	1.04419	90	0.0222222	845			0.00651081	1 1	14 D8S1695	
	0.233447	3.37E-13			845	0.00414201	0.00374332	1,41974	1	16 D8S1695	
	0.524484				845	0.00118343	0.00106952	0.405068	i	-4 D8S1695	
	0.652729	1.90E-10			845	0.000591716	0.000534759	0.202477	1	9 D8S1695	
	0.348647 0.152584	0.840511	96		643			0.878374	1	34 D8S1721	
	0.132384	0.50491 1.01665	96 96	0.0208333	643		_	2.04623	1	36 D8S1721	
	0.785034			0.411458 0.119792	643 643			0.0110214	1	0 D8S1721	
	0.064966	1.54723		0.140625	643	0.12675 0.0956454		0.0744005	1	2 D8S1721	
	0.0841884	1.79531	96	0.0677084	643	0.0388802		3.40584	1	4 D8S1721	
	0.360592	8.65E-12		2.02E-14	643	0.00233281	0.00202977	2.98213 0.83583	1	24 D8S1721	
	0.565421	0.666315	96	0.0104167	643	0.0155521	0.014885	0.330405	1	30 D8S1721 8 D8S1721	
	0.807385	0.835523	96	0.0104166	643	0.0124417		0.0594389	i	32 D8S1721	
	0.23772	1.71E-12	96	6.69E-15	643	0.00388802	0.00338295	1.39406	1	26 D8S1721	
	0.479937 0.597747	0.512687	96	0.00520834	643	0.0101089	0.00947226	0.499006	1	38 D8S1721	
	0.597747	4.11E-11 4.11E-11	96 96	3.20E-14	643		0.00067659	0.278407	1	6 D8S1721	
	0.597747	4.11E-11	98	3.20E-14 3.20E-14	643	0.000777605	0.00067659	0.278407	1	-2 D8S1721	
	0.142602	0.801487		0.564356	643 866	0.000777605 0.617783	0.00067659	0.278407	1	-4 D8S1721	
	0.397877	0.793563		0.0742575	866	0.0918014	0.612203 0.089969	2.14965	1	0 D8S1759	
	0.33652	1.34288	101	0.069307	866	0.0525404	0.0542916	0.714734 0.923645	1	2 D8S1759	
	0.357415	1.22571		0.138614	866	0.116051	0.118407	0.846955	1	10 D8S1759 12 D8S1759	
	0.962661	1.02935		0.0148515	866	0.0144342	0.0144778	0.00219159	1	'8 D8S1759	
	0.466242	1.40237		0.029703	866	0.0213626	0.0222337	0.530869	1	6 D8S1759	
	0.0763703 0.504658	1.62526		0.0940594	866	0.0600462	0.0635988	3.1405	1	4 D8S1759	
	0.544336	0.533584 0.656155	101	0.00495051	866	0.00923787	0.00879007	0.445127	1	16 D8S1759	
	0.415705	4.59E-12		0.00990101 7.96E-15	866 866	0.0150115	0.0144778	0.367562	1	14 D8S1759	
	0.373568	1.18012	63	0.5	702	0.0017321 0.458689	0.00155119	0.662425	1	-2 D8S1759	
	0.322396	0.685215	63	0.055556	702	0.0790598	0.462092 0.0771242	0.791763 0.9792	1	0 D8S1825	
	0.593823	1.15537	63	0.142857	702	0.126068	0.127451	0.284413	1	8 D8S1825 10 D8S1825	
	0.0933142	0.649083	63	0.134921	702	0.193732	0.188889	2.81625	1	6 D8S1825	
	0.680675	1.59657	63	0.00793648	702	0.00498576	0.00522876	0.169367	1	-2 D8S1825	
	0.495342 0.119951	1.216	63	0.126984	702	0.106838	0.108497	0.464902	1	2 D8S1825	
	0.119951	4.40E-11 1.96863	63 63	4.43E-13	702	0.00997151	0.00915033	2.41798	1	12 D8S1825	
	0.353489	1.48E-11	63	0.031746 5.28E-14	702	0.0163818	0.0176471	1.30309	1	4 D8S1825	
	0.67839	1.14E-11	63	8.13E-15	702 702	0.00356125 0.000712251	0.00326797	0.860894	1	-1 D8S1825	
	0.317308	1.18665	79	0.398734	841	0.358502	0.000653595 0.361957	0.171944	1	14 D8S1825	
	0.672194	0.877854	79	0.0759494	841	0.0856124	0.0847826	1.00001 0.179047	1	4 D8S265	
	0.0197552	2.24E-11	79	4.07E-13	841	0.0178359	0.0163043	5.4334	1	18 D8S265 6 D8S265	
	0.790552	1.07922	79	0.0949367	841	0.088585	0.0891304	0.0705399	i	14 D8S265	
	0.11626	1.40175	79	0.202532	841	0.153389	0.157609	2.467	i	0 D8S265	
	0.265927 0.260573	0.757916	79	0.056962	841	0.0808561	0.0788043	1.23764	1	-5 D8S265	
	0.757312	1.12702	79 79	0.120253	841	0.152794	0.15	1.26571	1	2 D8S265	
	0.0798753	2.92E-12	79	0.0506329 2.98E-14	841 841	0.0451843	0.0456522	0.0954888	1	12 D8S265	
	0.671704	2.16E-10	79	1.29E-13	841	0.010107 0.00059453	0.00923913 0.000543478	3.06744	1	16 D8S265	
	0.462784	1.45E-12	79	2.60E-15	841	0.00178359	0.000543478	0.179615	1	-3 D8S265	
	0.343023	3.46E-12	79	1.03E-14	841	0.00297265	0.00271739	0.539152 0.899099	1	10 D8S265 8 D8S265	
	0.671704	2.16E-10	79	1.29E-13	841	0.00059453	0.000543478	0.179615		20 D8S265	
	0.671704	2.16E-10	79	1.29E-13	841	0.00059453	0.000543478	0.179615	i	1 D8S265	
	0.671704 0.700978	2.16E-10	79	1.29E-13	841	0.00059453	0.000543478	0.179615	1	-4 D8S265	
	0.160376	1.12637 1.35485	64 84	0.101562	762	0.0912074	0.0920097	0.147457	1	0 D8S351	
	0007.0	1.00400	64	0.257812	762	0.204068	0.208232	1.97068	1	18 D8S351	

15/90

FIG.	6D.	Allelic	Association	for	Bipolar Disorder	
------	-----	---------	--------------------	-----	------------------	--

FIG. 6D.	Allelic As	soci	ation for B	ipola	r Disorder					
										
ਜ਼		نا	قِ	=	يق	, <u>ē</u>	,		a	ē
p-val		#aff	aff.freq	#con	con.freq	H0.freq	, 3	info	allele	marker
0.140611	1.36696	64	0.273438	762			2.17126	<u>-</u>	<u> </u>	<u>E</u>
0.0828			0.101563	762			3.00906	1	2 D8S351 6 D8S351	
0.714128			0.0390625	762			0.134188	1	20 D8S351	
0.0874914			1.70E-13	762			2.91993	1	10 D8S351	
0.475253 0.329101		64 64	0.0546875	762			0.509735	1	4 D8S351	
0.641023		64	0.0546874 0.0078125	762 762			0.952431	1	8 D8S351	•
0.627473			0.101563	762			0.217407	1	-2 D8S351	
0.230432			0.00781248	762			0.235503 1.43819	1	16 D8S351	
0.132055	1.12E-12	64	1.03E-14	762	0.00918635		2.26817	1	14 D8S351 12 D8S351	
0.421546	1.39E-10		3.67E-13	762		0.00242131	0.646001	i	22 D8S351	
0.720445		96	0.322917	825		0.334419	0.128067	1	-6 D8S503	
0.368534 0.650243	1.19191 0.928762	96 96	0.197917	825			0.8086	1	-2 D8S503	
0.55512		96	0.317708 0.046875	825 825			0.205594	1	0 D8S503	
0.143381	1.53953	96	0.0433333	825	0.0569697 0.0557576		0.348225	1	-4 D8S503	
0.158706	3.62E-12	96	1.98E-14	825	0.00545455	0.0586319 0.00488599	2.14129 1.98651	1	-8 D8S503	
0.776741	0.885429	96	0.03125	825	0.0351515	0.0347448	0.080411	1 1(4 D8S503 2 D8S503	
0.416197	9.71E-12	96	1.77E-14	825	0.00181818	0.00162866	0.661029		-10 D8S503	
0.250019	8.33E-13	96	3.04E-15	825	0.00363636	0.00325733	1.3232		-12 D8S503	
0.0265688 0.12838	0.718366		0.50495	876	0.586758	0.578301	4.91862	1	2 D8S516	
0.804679	1.30831 1.06406		0.247525 0.0990099	876	0.200913	0.205732	2.31198	1	4 D8S516	
0.351225	1.2526		0.113861	876 876	0.0936073 0.0930365	0.0941658	0.0611552	1	-2 D8S516	
0.0144311	8.78888	101	0.0148514	876	0.00171234	0.0951894 0.00307062	0.869025	1	0 D8S516	
0.262284	0.373998	101	0.00495048	876	0.0131279	0.0122825	5.98463 1.25666	1	8 D8S516	
0.624055	1.37502		0.0148514	876	0.0108448	0.011259	0.240209	1	6 D8S516 -4 D8S516	
0.147569	1.2585	95	0.415789	663	0.361237	0.368074	2.0972	1	6 D8S520	
0.0793509	0.702699	95	0.163158	663	0.217195	0.210422	3.07815	1	8 D8S520	
0.0737204 0.454748	0.236635 1.19606	95 95	0.00526315	663	0.0218703	0.0197889	3.19818	1	10 D8S520	
0.681499	0.875169	95	0.126316 0.0578948	663 663	0.107843	0.110158	0.558791	1	0 D8S520	
0.643367	0.886546	95	0.0947369	663	0.0656109 0.105581	0.0646438	0.168443		-10 D8S520	
0.155991	1.39865	95	0.136842	663	0.10181	0.104222 0.106201	0.214366 2.01267	1	2 D8S520	
0.119945	7.46E-12	95	5.10E-14	663	0.00678733	0.00593668	2.41804	1	4 D8S520 -12 D8S520	
0.604736	9.35E-12	95	7.06E-15	663	0.000754148	0.000659631	0.267911	1	9 D8S520	
0.0614545	3.16E-16	95	3.13E-18	663	0.00980392	0.0085752	3.49769	1	-2 D8S520	
0.46409 0.160754	1.17E-13 0.808303	95	1.77E-16	663	0.0015083	0.00131926	0.536012	1	12 D8S520	
0.00752838	1.67593	97 97	0.474227 0.22165	840	0.527381	0.521878	1.96712	1	0 D8S542	
0.554142	0.907693	97	0.304124	840 840	0.145238 0.325	0.153148	7.14237	1	4 D8S542	
0.417889	1.77E-10	97	3.16E-13	840	0.00178571	0.322839 0.00160085	0.349949	1	2 D8S542	
0.64009	4.66E-14	97	2.78E-17	840	0.000595238	0.000533618	0.656244 0.218624	1 1 ·	-2 D8S542 -12 D8S542	
0.709164	1.10417	93	0.0967742	814	0.0884521	0.0893054	0.139113	1	-8 D8S550	
0.820119	1.05534	93	0.123656	814	0.117936	0.118523	0.0517073	i	12 D8S550	
0.55045	0.826982	93	0.0591398	814	0.0706388	0.0694598	0.356512	1	-6 D8S550	
0.07782 0.170811	0.726739 0.72134	93 93	0.22043 0.107527	814	0.280098	0.27398	3.10985	1	14 D8S550	
0.064467	2.12756	93	0.107527	814 814	0.14312	0.139471	1.87581	1	-2 D8S550	
0.395481	1.28543	93	0.0806452	814	0.0233415 0.0638821	0.0259096	3.41856	1	8 D8S550	
0.0975753	1.77163	93	0.0645162	814	0.0374693	0.0656009 0.0402426	0.722025 2.74473		10 D8S550	
0.343372	1.63802	93	0.0268817	814	0.0165848	0.0402426	0.897801	-	18 D8S550 20 D8S550	
0.487631	1.19986	93	0.102151	814	0.0866093	0.0882029	0.481749	-	16 D8S550	
0.656014	1.14821	93	0.0698925	814	0.0614251	0.0622933	0.198401	i	0 D8S550	
0.162329 0.351936	6.71E-12 2.92E-14	93	3.73E-14	814	0.00552826	0.00496141	1.9524	1	2 D8S550	
0.51053	1.09E-10	93 93	7.19E-17 1.35E-13	814	0.002457	0.00220507	0.866466		22 D8S550	
0.51053	1.09E-10	93	1.35E-13	814 814	0.0012285 0.0012285	0.00110254 0.00110254	0.43298	1	6 D8S550	
		- •		- · · ·	0.0012200	J.UU I 1UZD4	0.43298	1	4 D8S550	

16/90

FIG. 6E. Allelic Association for Bipolar Disorder

11G. 0E. 1	Allelic AS	SOC	lation for B	ipola	r Disorder					
1			5	,	2	3	T			
্ ত্ত		3 -	aff.freq	=	Treat		<u> </u>		a.	marker
p-val		#aff	₩.	#con				ည	allele	춫
0.136893		27	0.5	391				info	<u></u>	Ĕ
0.136893								1	1	DG00AAHBG
0.300119				725				1	2	DG00AAHBG
0.300119				725				1	2	DG00AAHBH
0.247129	0.797863			811				1	1	DG00AAHBH
0.247129				811			_	1		DG00AAHBI
0.259878				531				1	1	DG00AAHBI
0.259878				531			2 1.26941	1	0	DG8S117
0.949601			0.910891	826				1	9	DG8S117
0.949601	1.01672		0.0891089	826			2 0.00399521	1	0	DG8S118
0.247725	0.826649	87	0.396552	604				1		DG8S118
0.51935	0.845888	87	0.103448	604				1	0	DG8S127
0.0968201	1.30975	87	0.5	604				1		DG8S127
0.245581	8.27E-12	87	3.44E-14	604				1		DG8S127
0.677323	0.92813	93	0.736559	646				1	2	DG8S127
0.677323	1.07744	93	0.263441	646				1	. 0	DG8S128
0.610112	0.920497	92	0.353261	772				1		DG8S128
0.334773	0.860241	92	0.5	772				1		DG8S130
0.986165	0.987072	92	0.0108696	772	0.0110104			1		DG8S130
0.291287	4.2132	92	0.00543485	772	0.00129533			1		DG8S130
0.00263246	2.62787	92	0.0869566	772	0.0349741			1	12	DG8S130
0.664976	1.18581	92	0.0434783	772	0.0369171	0.0376157	******	1		DG8S130
0.244659	6.34E-13	92	2.47E-15	772	0.00388601	0.00347222		1	8	DG8S130
0.410915	2.49E-11	92	4.84E-14	772	0.00194301	0.00347222		1	-12	DG8S130
0.71498	1.08295	98	0.862245	739	0.852503			1	-8	DG8S130
0.592821	0.888749	98	0.132653	739	0.14682		0.133354 0.285961	1		DG8S134
0.183435	7.57436	98	0.00510204	739	0.00067659	0.00119474		1		DG8S134
0.774126	1.04852	92	0.668478	779	0.657895			1		DG8S134
0.39935	0.705966	92	0.0326087	779	0.0455712	0.0442021	0.710282	1		DG8S136
0.986516	1.00499	92	0.076087	779	0.0757381	0.075775	0.000285615	1	6	DG8S136
0.803865	1.09048	92	0.0543478	779	0.0500642	0.0505166	0.0616768	1	-b	DG8S136
0.940311	1.02503	92	0.0597826 -	779	0.0584082	0.0585534	0.00560683	1		DG8S136
0.641268	0.84886	92	0.0489131	779	0.0571245	0.0562572	0.217088	1		DG8S136
0.251291	0.532858	92	0.0163044	779	0.0301669	0.0287026	1.31611	1	-4	DG8S136 DG8S136
0.636514	4.82E-11	92	3.09E-14	779	0.000641849	0.000574053	0.22333		-2 : 10 :	DG8S136
0.412203	1.52634	92	0.0271739	779	0.0179718	0.0189437	0.672438	1	9 1	DG8S136
0.290348	3.25E-12	92	1.05E-14	779	0.00320924	0.00287026	1.11801	i		DG8S136
0.288632	4.2514		0.00543481	779	0.00128369	0.00172216	1.12599	1		DG8S136
0.0861802	5.69597	92	0.0108696	779	0.00192555	0.00287026	2.94432		.14 1	DG8S136
	0.554385	19	0.210526	234	0.324786	0.316206	2.27265	1		DG8S137
0.0225578 0.24739	108030	19	0.0263127	234	2.50E-07	0.00197628	5.20224	1	16 (DG8S137
0.616114	1.87447	19	0.131579	234	0.0747863	0.0790514	1.33798	1	2 [DG8S137
0.971193	1.29561	19	0.131579	234	0.104701	0.106719	0.251367	1		DG8S137
	1.02778 0.780645	19 19	0.0526315	234	0.0512821	0.0513834	0.00130407	1	10 E	DG8S137
0.470942	1.46008	19	0.184211	234	0.224359	0.221344	0.342052	1	0 [DG8S137
0.753076	0.40000	19	0.131579	234	0.0940171	0.0968379	0.519764	1		0G8S137
0.697516	1.55406		0.0789474	234	0.0940171	0.0928854	0.0989647	1		OG8S137
0.428411	1.33E-11	19 19	0.0263158	234	0.017094	0.0177866	0.151068		12 [G8S137
0.692589	1.98E-10	19	1.14E-13	234	0.008547	0.00790514	0.627129	1	8 [G8S137
0.193815	6.29729	19	4.23E-13	234	0.00213675	0.00197628	0.156297	1		G8S137
	0.607662	91	0.0263158 0.0824176	234	0.00427351	0.00592885	1.68838			G8S137
0.0563616	1.65529	91	0.0824176	761	0.128778	0.123826	3.55114	1		G8S138
	4.06E-10	91	0.917582 2.67E-13	761	0.870565	0.875587	3.64134	1		G8S138
0.992623	1.00158	81		761		0.000586854	0.225977	1		G8S138
0.990781	1.00198	81		585 585	0.400855	0.400901	8.55E-05	1		G8S147
	1.11E-12	81		585	0.598291	0.598348	0.000133512	1	2 D	G8S147
	0.715394	97		694		0.000750751	0.25946	1	1 D	G8S147
	•		0010707	J#	0.0706052	0.068268	1.04464	1	-4 D	G8S148

17/90

FIG. 6F. Allelic Association for Bipol	ar Disorder
--	-------------

FIG. 6F. A	Illelic Ass	oci	ation for Bi	polar	Disorder						
i			5		5	. 6					
<u> </u>		9-	夏	Ĕ	투	ق			<u>a</u>		<u>ke</u>
p-vaľ	_	#aff	aff.freq	#con	con.freq	H0.freq	×	info	allele		marker
0.189157	1.24392	97	0.324742	694	0.278818	0.28445	1.72417	<u>-=</u>		G8S148	
0.0232615	0.644275	97	0.170103	694	0.241354	0.232617	5.14887	i	_	G8S148	
0.486186	1.11554	97	0.402062	694	0.376081	0.379267	0.484957	1	0 D	G8S148	
0.499249 0.00372723	1.31378 78879.2	97 97	0.0412371	694	0.0317003	0.0328698	0.456533	1	4 D	G8S148	
0.00372723	5.48E-11	97	0.0103083 7.91E-14	694 694	1.32E-07	0.00126422	8.41214	1		G8S148	
0.113102	1.39634	50	0.51	473	0.00144092 0.427061	0.00126422	0.523658	1		G8S148	
0.755554	0.90203	50	0.11	473	0.120507	0.43499 0.119503	2.51033 0.0969232	1		G8S153	
0.630406	0.626936	50	0.01	473	0.0158562	0.0152964	0.231511	1		G8S153 G8S153	
0.0818552	0.540989	50	0.0799999	473	0.138478	0.132887	3.02767	1		G8S153	
0.843493	0.938637	50	0.12	473	0.12685	0.126195	0.0389776	1		G8S153	
0.940056	1.03404	50	0.08	473	0.0581395	0.0583174	0.005655	1		G8S153	
0.693522 0.836	0.815219 1.13938	50 50	0.04 0.0299999	473	0.0486258	0.0478011	0.155299	1		G8S153	
0.934189	1.05269	50	0.0299999	473 473	0.0264271 0.0285412	0.0267686 0.0286807	0.0428544	1		G8S153	
0.315528	1.24E-11	50	6.58E-14	473	0.00528541	0.026607	0.00681865	1		G8S153	
0.480374	2.37881	50	0.0100001	473	0.00422832	0.00478011	1.0074 0.498013	1		G8S153	
0.691922	0.906871	43	0.290698	453	0.311258	0.309476	0.157012	1		G8S153 G8S155	
0.260822	1.47027	43		453	0.0993377	0.102823	1.26439	i		G8S155	
0.613999	1.38763	43	0.0348837	453	0.0253863	0.0262097	0.254392	1		G8S155	
0.980677	0.990648	43	0.0930232	453	0.093819	0.09375	0.000586596	1	2 D	G8S155	
0.316582 0.682666	0.759107 0.825983	43 43	0.197674 0.0581394	453	0.245033	0.240927	1.00302	1		G8S155	
0.45664	1.29768	43	0.127907	453 453	0.0695364 0.101545	0.0685484	0.16714	1		G8S155	
0.319621	0.515476	43	0.0232558	453	0.0441501	0.103831 0.0423387	0.554118 0.990498	1		G8S155	
0.331856	3.54119	43	0.0116279	453	0.00331126	0.00403226	0.941641			G8S155 G8S155	
0.128687	10.6473	43	0.011628	453	0.00110374	0.00201613	2.30827			G8S155	
0.670119	8.40E-13	43	9.28E-16	453	0.00110375	0.00100806	0.181463	1		G8S155	
0.128687	10.6473	43	0.011628	453	0.00110374	0.00201613	2.30827	1		G8S155	
0.460382 0.40513	1.52E-11 1.14371	43 89	5.04E-14 0.41573	453	0.00331126	0.00302419	0.544966	1		G8S155	
0.245044	0.83143	89	0.522472	777 777	0.383526 0.568211	0.386836	0.693046	1		G8S156	
0.20887	1.63567	89	0.0505618	777	0.0315315	0.56351 0.0334873	1.35134 1.57924	1		G8S156	
0.401222	2.9209	89	0.00561798	777	0.0019305	0.00230947	0.704662	1	3 100	G8S156 G8S156	
0.265718	0.376077	89	0.00561801	777	0.0148005	0.0138568	1.23872	1		38S156	
0.33947	0.732904	82	0.920732	556	0.940647	0.938088	0.912432	1	0 D	38S159	
0.475481	1.29748	82	0.0609756	556	0.0476619	0.049373	0.509211	1		38S159	
0.502159 0.365296	1.57525 0.8673	82 95	0.0182927	556	0.0116906	0.0125392	0.450371	1	2 D	38S159	
0.365296	1.153	95	0.389474 0.610526	735 735	0.42381 , 0.57619	0.41988	0.819604	1		38S161	
0.104578	1.27982	97	0.530928	815	0.57619	0.58012 0.475877	0.819604	1		38S161	
0.104578	0.781357	97	0.469072	815	0.530675	0.524123	2.6343 2.6343	1		38S163	
0.616405	1.09015	83	0.349398	759	0.33004	0.331948	0.250952	1		38S163 38S170	
0.438895	0.877032	83	0.620482	759	0.650856	0.647862	0.599168	i		38S170	
0.413258	1.60494	83	0.0240964	759	0.0151515	0.0160333	0.66941	1		385170	
0.266779	4.59391	83	0.00602407	759	0.00131753	0.00178147	1.23323	1		385170	
0.519255 0.519255	9.02E-11 ' 9.02E-11	83 83	1.19E-13 1.19E-13	759 750	0.00131752	0.00118765	0.415373	1		38S170	
	0.791041	95	0.378947	759 643	0.00131752 0.435459	0.00118765	0.415373	1		38S170	
0.693639	0.675133	95	0.00526316	643	0.00777605	0.428184 0.00745257	2.18043 0.155174	1		38S177	
0.278312	1.49758	95	0.0526316	643	0.0357698	0.0379404	1.17531	1		38S177 38S177	
0.364696	1.17506	95	0.268421	643	0.237947	0.24187	0.821658	1		38S177	
0.653875	1.12247	95	0.105263	643	0.0948678	0.096206	0.201049	1		38S177	
0.82908 0.457668	1.05125	95	0.131579	643	0.125972	0.126694	0.0466051	1		38S177	
0.880841	9.87E-11 0.951725	95 95	1.54E-13 0.0578947	643	0.00155521	0.00135501	0.551597	1		38\$177	
	0.944594	87	0.0576947	643 622	0.0606532 0.525723	0.0602981	0.0224708	1		38S177	
0.724908	1.05866	87	0.488506	622	0.525723	0.523977 0.476023	0.123839 0.123839	1		38S179	
· -		- •			V7611	V.T/UU23	U. 123039	1	1 00	38S179	

18/90

FIG. 6G. Allelic Association for Bipolar Disorder

FIG. 8G.	FIG. 6G. Allelic Association for Bipolar Disorder											
_	_		Ş	7			-			:		
- Ka		#	aff fram	#con	4	Deut-lied	,		<u>o</u>	marker		
		#aff	#	ÿ	Ş		2	info	allele	lar		
0.76250			0.26315	625	0.273		0.0913188	_==		E		
0.14374(0.18007)				9 625	0.264	8 0.258333	2.1374	1				
0.62497				625			1.79701	1				
0.0951353								1	14 DG8S181			
0.0858196								1	4 DG8S181			
0.84626	0.91141							1				
0.953238				625				1				
0.506027			0.0210526	625	0.014			1 1				
0.205305		95		625	0.0032		1.60423	1				
0.84956 0.351987					0.0064	4 0.00625	0.0359784	1				
0.351987					0.920538		0.866281	1				
0.457958					0.0794621		0.866281	1	-3 DG8S182			
0.457958	1.15252				0.76131 0.23869		0.550882	1				
0.419757	1.1713	59			0.554577	0.24169 0.558214	0.550882	1	= 000.00			
0.51537			0.194915	568	0.170775		0.650995 0.423149	1	0 DG8S192			
0.207352					0.0246479		1.58982	1	2 DG8S192 16 DG8S192			
0.677246			0.0762712		0.0660211		0.173242	1	4 DG8S192			
0.245975 0.57227			0.0677967	568	0.0994718		1.34602	1	-2 DG8S192			
0.319662			0.059322		0.0730634	0.0717703	0.318899	1	12 DG8S192			
0.373517		59 59	1.05E-14 2.77E-13		0.00440141		0.990328	1				
0.529354			2.77E-13 2.87E-16	568 568	0.00352113		0.791929	1	10 DG8S192			
0.529354			2.87E-16	568	0.00176056 0.00176056		0.395632	1	-4 DG8S192			
0.0217834	0.700803	97	0.546392	730	0.632192		0.395632	1	14 DG8S192			
0.0217834	1.42694	97	0.453608	730	0.367808		5.26301	1	0 DG8S197			
0.0928033	1.29436	98	0.566327	677	0.502216		5.26301 2.82506	1	1 DG8S197			
0.935151	0.98689	98	0.331633	677	0.334564		0.00662036	1	0 DG8S201 4 DG8S201			
0.0212726	0.54752	98	0.0765306	677	0.131462		5.30432	i	-2 DG8S201			
0.628116 0.779148		98	0.0255102	677	0.0317578	0.0309677	0.234624	1	2 DG8S201			
0.779148	1.1035	97 97	0.948454 0.0515464	735	0.953061	0.952524	0.0786405	1	0 DG8S212			
0.501767		53	0.613207	735 392	0.0469388	0.047476	0.0786405	1	2 DG8S212			
0.469316	1.1675	53	0.386792	392	0.646684 0.350765	0.642697	0.451197	1	4 DG8S215			
0.476067	6.32E-11	53	1.62E-13	392	0.00255102	0.355056 0.00224719	0.523585	1	0 DG8S215			
0.0493249	1.4219	83	0.445783	292	0.361301	0.00224719	0.507858 3.86426	1	2 DG8S215			
0.492758	1.14224	83	0.301205	292	0.273973	0.28	0.470498	1	0 DG8S221			
0.357409	0.668952	83	0.0361446	292	0.0530822	0.0493333	0.846976	1	5 DG8S221 7 DG8S221			
0.922396 0.00198543	0.974125	83	0.120482	292	0.123288	0.122667	0.00948998	1	4 DG8S221			
0.868514	0.416254 0.878049	83 83	0.0783132	292	0.169521	0.149333	9.56296	1	-2 DG8S221			
0.479182	4.03E-11	83	0.0120482 6.91E-14	292	0.0136986	0.0133333	0.0274055	1	1 DG8S221			
0.655811	1.76363	83	0.00602407	292 292	0.00171233	0.00133333	0.500724	1	8 DG8S221			
0.787685	1.04516	94	0.340426	726	0.00342466 0.330578	0.004	0.198652	1	-1 DG8S221			
0.458767	1.12444	94	0.409575	726	0.381543	0.331707 0.384756	0.0725321	1	0 DG8\$232	•		
0.0538268	0.622749	94	0.0957447	726	0.145317	0.139634	0.548901 3.71806	1	2 DG8S232			
0.695287	1.11362	94	0.0904255	726	0.0819559	0.0829268	0.153421	1	-8 DG8S232			
0.965139	0.982323	94	0.0372341	726	0.0378788	0.0378049	0.00191022	1	-4 DG8S232 4 DG8S232			
0.519055 0.621627	1.38954	94	0.0265958	726	0.0192837	0.020122	0.41577	1	-2 DG8S232			
0.323362	8.43E-13 1.26E-10	94 94	5.81E-16		0.000688705	0.000609756	0.243588	i	-6 DG8S232			
0.0309669	2.01171	96	3.48E-13	726	0.00275482	0.00243902	0.9753	1	6 DG8S232			
0.0309669	0.497086	96	0.953125 0.0468749	672 672	0.90997	0.915365	4.6548	1	0 DG8S238			
0.120276	0.73024	57	0.570176	476	0.0900298 0.644958	0.0846354	4.6548	1	-8 DG8S238			
0.120276	1.36941	57	0.429825	476	0.355042	0.636961 0.363039	2.41372	1	4 DG8S242			
0.130702	1.55627	93	0.930108	468	0.895299	0.90107	2.41372 2.28415	1	0 DG8S242			
0.926667	0.969323	93	0.0591398	468	0.0608974	0.0606061	0.00847127	1	0 DG8S245 -4 DG8S245			
								•	T DG 03245			

19/90

FIG. 6H. Allelic Association for Bipolar Disorde	FIG. 6H	Allelic Association for Bi	polar Disorde
--	---------	----------------------------	---------------

. 10. 011.	MICHE AS	300	iation for B			,					
·	ì		aff.freq	•	con.freq	Ď					
p-val		#aff	造	#con	<u>.</u>	H0.freq		0	allele		marker
		#	<u>af</u>		8	운	2	info	筹		<u>a</u>
0.326233		84			0.569648	0.565274				DG8S249	
0.396524 0.92549		84		_	0.181085		0.718843	1		DG8S249	
0.278027		84 84			0.0168622		0.00874613	1	-17	DG8S249	
0.901316		84		-	0.0153959		1.17671	1	-21	DG8S249	
0.701106		84		682 682	0.0982405		0.0153757	1		DG8S249	
0.356731		84			0.00879766 0.0432551		0.147323	1	-	DG8S249	
0.0202989		84			0.0432551	0.0450392 0.0150131	0.849367	1		DG8S249	
0.95049		84			0.0124633		5.386	1	-	DG8S249	
0.201691	1.05E-11	84			0.00513197	0.00456919	0.00385535 1.63009	1		DG8S249	
0.0945611		84		682	0.0322581	0.035248	2.79496	1		DG8S249 DG8S249	
0.394709		96	0.0677083		0.052226			1		DG8S249	
0.354176		96			0.244007	0.239706	0.85844	1		DG8S250	
0.668478		96			0.129281	0.130882	0.183387	1		DG8S250	
0.278992		96		584	0.190068	0.194853	1.17199	1	_	DG8S250	
0.0750708 0.481973		96		584	0.250856	0.242647	3.16851	1		DG8S250	
0.896366		96 96		584	0.0642123	0.0661765	0.494395	1	-2	DG8S250	
0.0784271		98	0.0104167 0.0260417	584	0.00941781	0.00955882	0.0169659	1	8	DG8S250	
0.695254		96	0.0200417	584 584	0.00941781	0.0117647	3.0972	1		DG8S250	
0.760007		96	0.015625	584	0.0196918 0.0128425	0.0191176	0.153456	1	6	DG8S250	
0.90986		96	0.015625	584	0.0125425	0.0132353 0.0147059	0.0933133	1		DG8S250	
0.269464	7.68E-14	96	2.64E-16	584	0.00342466	0.00294118	0.0128176 1.21947	1		DG8S250	
0.751011	0.949842	92	0.619565	680	0.631618	0.630181	0.100683	1	12	DG8S250	
0.95664		92	0.315217	680	0.313235	0.313472	0.00295614	1		DG8S257	
0.770454		92	0.0489131	680	0.0441176	0.0446891	0.0851363	1		DG8S257 DG8S257	
0.942723		92	0.0108696	680	0.0102941	0.0103627	0.00516202	i		DG8S257	
0.187243		92	0.00543476	680	0.000735298	0.00129534	1.73918	1		DG8S257	
0.599971	1.11205	83	0.216867	637	0.199372	0,201389	0.275039	1		DG8S258	
0.208266 0.0488866	1.23457 0.650118	83	0.602409	637	0.55102	0.556944	1.58344	1		DG8S258	
0.0470735	1.80E-15	83 83	0.150602	637	0.214286	0.206944	3.87924	1	12	DG8S258	
0.483799	3.57E-11	83	2.29E-17 5.61E-14	637 637	0.0125589	0.0111111	3.94276	1	0	DG8S258	
0.483799	3.57E-11	83	5.61E-14	637	0.00156986	0.00138889	0.490289	1		DG8S258	
0.706939	1.23358	83	0.0240964	637	0.00156986 0.0196232	0.00138889	0.490289	1	24	DG8S258	
0.0375366	58362.2	83	0.0060233	637		0.0201389 0.000694444	0.141353	1		DG8S258	
0.759909	0.936597	57	0.692982	549	0.70674	0.705446	4.3259 0.0933912	1		DG8S258	
0.759909	1.06769	57	0.307018	549	0.29326	0.294554	0.0933912	1		DG8S261	
0.969404	1.02076	55	0.0363637	561	0.0356506	0.0357143	0.00147113	1		DG8S261 DG8S262	
0.683866	0.921811	55	0.509091	561	0.529412	0.527597	0.165808	1		DG8S262	
0.843058	0.931097	55	0.0818182	561	0.087344	0.0868506	0.0391974		-10	DG8S262	
0.216881	1.32844	55	0.272727	561	0.220143	0.224838	1.52489	1	2	DG8S262	
0.603723 0.767637	0.739227	55	0.0272726	561	0.0365419	0.0357143	0.269417	1		DG8S262	
0.767637	0.880436	55	0.0545455	561	0.0614973	0.0608766	0.0873005	1		DG8S262	
0.386639	1.1358 2.81E-11	55 55	0.0181818	561	0.0160428	0.0162338	0.0277405	1		DG8S262	
0.150491		55	1.01E-13	561	0.00356506	0.00324675	0.749485	1		DG8S262	
0.233927	1.24619	97	8.79E-15 0.231959	561 754	0.00980392	0.00892857	2.06726		-14	DG8S262	
0.823939	1.03482	97	0.231939	751 751	0.195073	0.199292	1.41682	1	15 [DG8S265	
0.0311666	2.75E-12	97	3.53E-14	751 751	0.558589 0.0126498	0.559552	0.0494978	1		DG8S265	
0.189591	0.772375	97	0.170103	751	0.20972	0.0112028 0.205189	4.64376	1		DG8S265	
0.485625	4.63E-11	97	6.17E-14	751	0.00133156	0.205169	1.7208	1		DG8S265	
0.473203	1.44523	97	0.0257732	751	0.017976	0.0117925	0.486205 0.514486	1		OG8S265	
0.925649	1.10659	97	0.00515466	751	0.00466045	0.00471698	0.00870867	1		DG8S265 DG8S265	
0.631697	1.08177	85	0.476471	615	0.456911	0.459286	0.229767	1		DG8S266	
0.777865	0.954415	85	0.423529	615	0.434959	0.433571	0.0795817	i		DG8S266	
0.74591	0.916458	85	0.1	615	0.10813	0.107143	0.105	i		DG8S266	
0.484424	1.11477	97	0.417526	741	0.391363	0.394391	0.488888	1		G8S269	
											•

20/90

FIG. 61.	Allelic	Association	for	Bipolar Disorder
----------	---------	--------------------	-----	------------------

ı	FIG. 6I. Allelic Association for Bipolar Disorder											
	•			5		con.freq	ੁ				٦	
	p-val		#	aff.freq	#con	n.f.	H0.freq			<u>.</u>	marker	
			#aff	aff	_ ¥	ᅙᆢ	오	Ş	info	allele	폩	
	0.111271	0.783298	97	0.520619	741	0.580972	0.573986	2.53608	1	0 DG8S269	_=_	
	0.0207518	2.31734	97	0.0618557	741			5.34751	1	-5 DG8S269		
	0.0125222 0.0965033	0.536447 1.44289	50	0.19	567			6,23539	1	-2 DG8S271		
	0.0903033	1.16162	50 50	0.69 0.1	567			2.7624	1	0 DG8S271		
	0.0272474	11.5511	50	0.02	567 567			0.177756	1	2 DG8S271		
	0.201722	2.20843	95	0.0210526	674		0.00324149 0.0110533	4.87506	1	4 DG8S271		
	0.0361748	1.41743	95	0.347368	674			1.62986 4.38885	1	-6 DG8S277 10 DG8S277		
	0.63596		95	0.268421	674			0.224065	1	0 DG8S277		
	0.865799	0.951486	95	0.0736842	674		0.076723	0.0285598	1	-2 DG8S277		
	0.0947257	0.726956	95	0.189474	674		0.236671	2.79217	1	2 DG8S277		
	0.241235 0.956609	0.640208 0:96694	95	0.0368422	674		0.0539662	1.37337	1	8 DG8S277		
	0.25043	1.15E-12	95 95	0.0157895	674			0.00296041	1	4 DG8S277		
	0.0578435	2.71467	95 95	4.27E-15 0.0315789	674 674		0.00325098	1.32091	1	14 DG8S277		
	0.161764	0.304808	95	0.00526316	674		0.0143043 0.0156047	3.59816	1	6 DG8S277		
	0.577818	1.58274	95	0.0105263	674		0.00715215	1.95766 0.309775	1	12 DG8S277		
	0.765951	1.05169	83	0.60241	576	0.590278	0.591806	0.0886105	1	-4 DG8S277 0 DG8S285		
	0.684656	0.929874	83	0.307229	576	0.322917	0.320941	0.164932	i	2 DG8S285		
	0.742479	1.10872	83	0.0783133	576	0.0711805	0.0720789	0.10796	i	1 DG8S285		
	0.716093	0.768292	83	0.0120482	576	0.015625	0.0151745	0.132267	1	-1 DG8S285		
	0.571041	0.909551	87	0.586207	500	0.609	0.605622	0.320945	1	0 DG8S291		
	0.9626 0.0818958	1.00913	87	0.235632	500	0.234	0.234242	0.00219873	1	4 DG8S291		
	0.0664868	1.52991 0.38118	87 87	0.149425	500	0.103	0.109881	3.02687	1	2 DG8S291		
	0.858761	1.15116	87	0.0172414 0.0114942	500 500	0.044	0.0400341	3.36769	1	-2 DG8S291		
	0.988027	1.00277	80	0.7125	729	0.01 0.711934	0.0102215 0.71199	0.0316667	1	6 DG8S291		
	0.988027		80	0.2875	729	0.288066	0.28801	0.000225189 0.000225189	1	2 DG8S292		
	0.831828	1.03936	90	0.25555	727	0.248281	0.249082	0.0450957	1	0 DG8S292 12 DG8S297		
	0.551964	0.905275	90	0.327778	727	0.350069	0.347613	0.353811	1	0 DG8S297		
	0.593688	0.820513	90	0.0444444	727	0.0536451	0.0526316	0.284622	1	14 DG8S297		
	0.933583	0.980521	90	0.127778	727	0.129986	0.129743	0.00694513	1	4 DG8S297		
	0.974297	0.984668	90	0.0277778	727	0.0281981	0.0281518	0.00103809	1	10 DG8S297		
	0.290398 0.223202	1.27318	90	0.15	727	0.121733	0.124847	1.11778	1	16 DG8S297		
	0.223202	0.347581 1.4551	90 90	0.00555553 0.0277778	727 727	0.0158184	0.0146879	1.48366	1	8 DG8S297		
	0.0530974	3.64899	90	0.0277778	727	0.0192572 0.00618982	0.0201958	0.534428	1	18 DG8S297		
	0.379013	0.552111	90	0.0111111	727	0.019945	0.00795594 0.0189718	3.74085	1	-4 DG8S297		
	0.62894	7.55E-10	90	5.20E-13	727	0.000687757	0.000611995	0.773901 0.233501	1	6 DG8S297		
	0.146628	6.57E-12	90	4.09E-14	727	0.00618982	0.00550796	2.10699	1	2 DG8S297 -2 DG8S297		
	0.484916	0.874705	98	0.795918	726	0.816804	0.81432	0.487787	i	0 DG8S298		
	0.503167	1.13979	98	0.193878	726	0.174242	0.176578	0.448251	1	2 DG8S298		
	0.864815	1.14116	98	0.0102041	726	0.00895316	0.00910194	0.0289844	1	1 DG8S298		
	0.945889	1.01429	87	0.816092	602	0.813953	0.814224	0.00460641	1	0 DG8S301		
	0.945889 0.575354	0.985915 1.0993	87 86	0.183908	602	0.186047	0.185776	0.00460641	1	1 DG8S301		
		0.950489	86	0.366279 0.30814	666 666	0.344595	0.347074	0.313806	1	26 DG8S302		
		0.781118	86	0.0988373	666	0.319069 0.123123	0.317819	0.0843334	1	28 DG8S302		
	0.629411	1.17834	86	0.0639535	666	0.0548048	0.120346 0.0558511	0.890667	1	24 DG8S302		
	0.882719	1.03304	86	0.162791	666	0.158408	0.15891	0.23286 0.0217632	1	30 DG8S302 0 DG8S302		
	0.701115	1.07445	88	0.767045	756	0.753968	0.755332	0.147314	1	2 DG8S302	i	
	0.30383	2.47127	88	0.0113637	756	0.00462963	0.00533175	1.05731	1	4 DG8S303	•	
	0.569859		88	0.221591	756	0.240741	0.238744	0.322918	i	-2 DG8S303		
	0.638818	9.80E-13	88	6.48E-16	756	0.000661376	0.000592417	0.220291	1	0 DG8S303		
	0.323683	1.27067 0.843182	51	0.754902	315	0.707936	0.714481	0.974008	1	4 DG8S307		
	0.922209		51 51	0.137255 0.0392157	315	0,15873	0.155738	0.316815	1	0 DG8S307		
		0.726679	51	0.0392157	315 315	0.0412698 0.0920635	0.0409836	0.00953574	1	8 DG8S307		
		,	⊸.	3.0000270	0.0	0.0320033	0.0887978	0.634727	1	-4 DG8S307		

21/90

	Allalia	Association	£	-	
LIG. 69	. Allelic	ASSOCIATION	TOP	Bibolar	Dienrder

FIG. 6J. A	lielic As	socia	ation for Bi	polar	Disorder					
						5				
p-val		Ħ	aff.freq	5	con.freq	H0.freq		_	<u>. 0</u>	marker
		#aff	aff	#con		' 운	Z	info	allele _	ag
0.171256 0.265085			0.577778	689	0.630624	0.624519	1.87192	<u></u>	0 DG8S308	
0.265065			0.2 0.111111	689 689	0.166183	0.17009	1.242	1	2 DG8S308	
0.391559			0.0722222	689	0.0899855 0.0558781	0.0924262 0.0577664	0.806607	1	-14 DG8S308	
0.710487			0.0222222	689	0.0330781	0.0377664	0.734097 0.137791	1	-4 DG8S308	
0.175154			0.0111111	689	0.0261248	0.0243902	1.83827	1	4 DG8S308 -6 DG8S308	
0.340146			0.00555554	689	0.0130624	0.0121951	0.909881	i	-2 DG8S308	
0.859898		•	0.00505051	660	0.00606061	0.00592885	0.0311539	1	8 DG8S316	
0.808112 0.375005			0.308081	660	0.316667	0.315547	0.0589821	1	10 DG8S316	
0.129566			0.464646 0.0757576	660	0.431061	0.435441	0.787011	1	0 DG8S316	
0.867332			0.116162	660 660	0.109848 0.112121	0.105402 0.112648	2.2977	1	12 DG8S316	
0.319464			0.030303	660	0.0189394	0.0204216	0.0279053 0.99114	1	14 DG8S316	
0.16135			1.40E-14	660	0.00530303	0.00461133	1.96153	1	16 DG8S316 2 DG8S316	
0.720932			0.423077	606	0.405116	0.406535	0.127601	i	2 DG8S322	
0.685172		52	0.0288462	606	0.0363036	0.0357143	0.164362	1	10 DG8S322	
0.268308 0.0129756	1.25949 0.365904	52 52	0.423077	606	0.367987	0.37234	1.22537	1	0 DG8S322	
0.773078	1.11905		0.0480769 0.0769231	606 606	0.121287 0.0693069	0.115502	6.17244	1	4 DG8S322	
0.735723			0.0709231	700	0.726429	0.0699088 0.725	0.0831461	1	6 DG8\$322	
0.735723	1.05843		0.285	700	0.273571	0.725	0.113921 0.113921	1	0 DG8S323	
0.63791	1.08125		0.314433	695	0.297842	0.299874	0.221486	1	5 DG8S323 0 DG8S324	
0.298388	1.58857	97	0.0360825	695	0.0230216	0.0246212	1.08138	i	10 DG8S324	
0.890423		97	0.216495	695	0.220863	0.220328	0.0189804	1	8 DG8S324	
0.466028 0.316602		97	0.175258	695	0.197122	0.194444	0.531379	1	2 DG8S324	
0.529445	1.15254	97 97	0.0927836 0.139175	695 695	0.116547	0.113636	1.00293	1	6 DG8S324	
0.715962	1.1993	97	0.0257732	695	0.123022 0.0215827	0.125 0.022096	0.395457	1	4 DG8S324	
0.321194	0.785941	93	0.107527	726 ·	0.13292	0.130037	0.132395 0.984077	1	12 DG8S324	
0.877088		93	0.0698925	726	0.0730028	0.0726496	0.0239204	1	-4 DG8S332 4 DG8S332	
0.206955	0.790105	93	0.209678	726	0.251377	0.246642	1.5926	i	2 DG8S332	
0.0425925	1.41167		0.327957	726	0.256887	0.264957	4.1115	1	0 DG8S332	
0.530606 0.710218	0.889209 1.16902	93 93	0.215054	726	0.235537	0.233211	0.393231	1	-2 DG8S332	
0.217107	1.8282	93	0.0376344 0.0322581	726 726	0.0323691	0.032967	0.13806	1	6 DG8S332	
0.0559242	0.696624	87	0.224138	539	0.0179063 0.293135	0.019536 0.283546	1.52339	1	-6 DG8S332	
0.0559242	1.43549	87	0.775862	539	0.706865	0.716454	3.65431 3.65431	1	-5 DG8S333	
0.00198166	0.188537	8	0.25	173	0.638728	0.621547	9.56645	1	0 DG8S333 1 INVSNP	
0.00198166	5.304	8	0.75	173	0.361272	0.378453	9.56645	i	2 INVSNP	
0.131157	0.790449	99	0.358586	764	0.414267	0.407879	2.27876	1	1 SG08S100	į
0.131157 0.0167769	1.2651 0.677563	99	0.641414	764	0.585733	0.592121	2.27876	1	2 SG08S100	t
0.0167769	1.47588	97 97	0.386598 0.613402	387	0.481912	0.46281	5.71957	1.	1 SG08S102	
0.437006	0.878672		0.613402	387 390	0.518088 0.669231	0.53719 0.663265	5.71957	1	2 SG08S102	
0.437006	1.13808		0.36	390	0.330769	0.836735	0.604132 0.604132	1	0 SG08S112	
0.377735	0.874364	99	0.520202	700	0.553571	0.549437	0.778059	1	2 SG08S112 0 SG08S120	
0.377735	1.14369	99	0.479798	700	0.446429	0.450563	0.778059	i	2 SG08S120	
0.190291		98	0.69898	746	0.743298	0.738152	1.71536	1	0 SG08S138	
0.190291	1.24699	98	0.30102	746	0.256702	0.261848	1.71536	1	2 SG08S138	
0.00149864 0.00149864	2.12086	59 59	0.720339 0.279661	391	0.845269	0.828889	10.0803	1	1 SG08S139	
0.144357		99	0.279001	391 713	0.154731 0.565217	0.171111	10.0803	1	0 SG08S139	
0.144357	1.24851	99	0.489899	713	0.434783	0.558498 0.441502	2.13089	1	0 SG08S15	
0.157518	1.23964	99	0.50505	701	0.451498	0.458125	2.13089 1.9979	1	2 SG08S15 0 SG08S26	
0.157518		99	0.494949	701	0.548502	0.541875	1.9979	1	2 SG08S26	
0.133952	1.26805		0.505	397	0.445844	0.457746	2.2461	i	2 SG08S27	
0.133952 0.141165	0.788614		0.495	397	0.554156	0.542254	2.2461	1	1 SG08S27	
0.141100	0.707 130	97	0.561856	397	0.619647	0.6083	2.16521	1	1 SG08S32	

22/90

EIG	CK	Allalia	Association	for Ring	lar Disorder
rig.	DN.	Allelic	MSSULIAUUII	TOL DIDO	iar Disoruer

FIG. 6K. A	Helic Ass	ocia	tion for Bi	polar						
1			aff.freq		con.freq	H0.freq			_	marker
7		3 ==	£,	#con	4.	Ę.		0	allele	됩
p-val		#aff	#	္ဆို	Ę,	오	Z	info	i i	일
0.141165	1.27043	97	0.438144	397	0.380353	0.3917	2.16521	1	0 SG08S32	_=_
0.145676	1.25902	99	0.646465	618	0.592233	0.599721	2.11696	1	1 SG08S35	
0.145676	0.794271	89	0.353535	618	0.407767	0.400279	2.11696	1	2 SG08S35	
0.212203	0.824463	100	0.45	523	0.498088	0.490369	1.55634	1	1 SG08S39	
0.212203	1.21291	100	0.55	523	0.501912	0.509631	1.55634	1	0 SG08S39	
0.648445	1.07374	98	0.403061	689	0.386067	0.388183	0.207867	1	0 SG08S42	
0.648445	0.931322	98	0.596939	689	0.613933	0.611817	0.207867	1	2 SG08S42	
0.305752	1.27727	99	0.126263	610	0.101639	0.105078	1.04894	1	1 SG08S46	
0.305752	0.782919	99	0.873737	610	0.898361	0.894922	1.04894	1	3 SG08S46	
0.0276381	0.711727	96	0.520833	743	0.604307	0.594756	4.8505	1	0 SG08S5	
0.0276381	1.40503	96	0.479167	743	0.395693	0.405244	4.8505	1	2 SG08S5	
0.684951	1.06429	98	0.454082	685	0.438686	0.440613	0.164606	1	2 SG08S50	
0.684951	0.939598	98	0.545918	685	0.561314	0.559387	0.164606	1	0 SG08S50	
0.00650408	0.643485	96	0.4375	381	0.547244	0.525157	7.40506	1	0 SG08S506	
0.00650408	1.55404	98	0.5625	381	0.452756	0.474843	7.40506	1	2 SG08S506	
0.228808	0.816667	99	0.318182	396	0.363636	0.354545	1.44826	1	2 SG08S507	
0.228808	1.22449	99	0.681818	396	0.636364	0.645455	1.44826	1	3 SG08S507	
0.094402	0.759538	96	0.375	392	0.441327	0.428279	2.79766	1	1 SG08S508	
0.094402	1.31659	96	0.625	392	0.558673	0.571721	2.79766	1	3 SG08S508	
0.590396	1.11521	96	0.807292	371	0.789757	0.793362	0.289727	1	1 SG08S510	
0.590396	0.896691	96	0.192708	371	0.210243	0.206638	0.289727	1	0 SG08S510	
0.872061	0.973708	96	0,401042	362	0.407459	0.406114	0.0259341	1	1 SG08S511	
0.872061	1.027	96	0.598958	362	0.592541	0.593886	0.0259341	1	3 SG08S511	
0.781	1.04689	95	0.410527	388	0.399485	0.401656	0.0772928	1	2 SG08S512	
	0.955211	95	0.589474	388	0.600515	0.598344	0.0772928	1	1 SG08S512	
0.123314		100	0.41	392	0.470663	0.458333	2.37472	1	1 SG08S517	
0.123314	1.27952	100	0.59	392	0.529337	0.541667	2.37472	1	3 SG08S517	
0.0911794	1.31381		0.625	397	0.559194	0.572435	2.85343	1	1 SG08S520	
0.0911794	0.761143	100	0.375	397	0.440806	0.427565	2.85343	1	0 SG08S520)
0.789675		98	0.719388	391	0.7289	0.726994	0.0711465	1	2 SG08S6	
0.789675	1.04877	98	0.280612	391	0.2711	0.273006	0.0711465	1	0 SG08S6	
	0.781948	96	0.442708	380	0.503947	0.491597	2.30483	1	1 SG08S70	
0.128973	1.27886	96	0.557292	380	0.496053	0.508403	2.30483	1	3 SG08S70	•
0.0117352	1.47013	99	0.60101	740	0.506081	0.517282	6.35045	1	0 SG08S71	
0.0117352		99	0.39899	740	0.493919	0.482718	6.35045	1	2 SG08S71	
0.0424166		97	0.43299	378	0.51455	0.497895	4.1185	1	3 SG08S73	
0.0424166	1.38802	97	0.56701	378	0.48545	0.502105	4.1185	1	1 SG08S73	
	0.758593	99	0.409091	394	0.477157	0.463489	2.96496	1	1 SG08S76	
0.0850867	1.31823	99	0.590909	394	0.522843	0.536511	2.96496	1	2 SG08S76	
0.391224		99	0.545455	394	0.511421	0.518256	0.735135	1	0 SG08S90	
0.391224		99	0.454545	394	0.488579	0.481744	0.735135	1	1 SG08S90	
0.168061			0.777228	705	0.81844	0.813275	1.90016	1	1 SG08S93	
0.168061	1.29205 0.775408	101 91	0.222772 0.28022	705 362	0.18156 0.334254	0.186725	1.90016	1	2 SG08S93 0 SG08S94	
0.159581 0.159581	1.28964		0.28022	362	0.334254 0.665746	0.3234 0.6768	1.97819 1.97819		2 SG08S94	
		91 99	0.71978	586	0.665746 0.41041	0.6766	1.97819 4.91413	1	2 SG08S95	
0.0266379		99	0.49495	586	0.58959	0.422628	4.91413	1	2 SG08S95 3 SG08S95	
0.0266379 0.504013			0.605	613	0.579935	0.58345	0.446476	1	2 SG08S96	
0.504013			0.395	613	0.420065	0.41655	0.446476	1	3 SG08S98	
0.892559			0.395	713	0.896914	0.897294	0.446476	1	0 SG08S97	
	0.966742		0.5	713	0.103086	0.102706	0.0182431	1	1 \$G08S97	
			-				,	•		

23/90

FIG.	7A.	Results fo	r Bipolar	· Disorder	without Pani	c Disorder

0.305708 0.977998 0.512664 0.69447 0.316991 0.111109 0.723343 0.432112 0.287331 0.604326 0.225515 0.335492 0.121956 0.0378667 0.66874 0.66874 0.335342	1.59559 1.08063 0.70124 0.805706 1.26692 1.51E-16 0.526588 4.11E-12 5.33647 3.17E-10 3.50155 3.17E-10	### 60 60 60 65 55 55 55 55 55 55 55 55 55 55 55 55	0.616667 0.283333 0.0833332 2.58E-13 0.0166666 6.55E-14 0.154546 0.300909 0.0545454 1.06E-18 0.0181817 4.71E-14 0.0272728	811 811 811 811 811 811 574 574 574 574 574 574	0.65783 0.24106 0.0826141 0.00184957 0.0123305 0.00431566 0.102787 0.283972 0.0635889 0.44338 0.043654 0.00696864	0.654994 0.243972 0.0826636 0.00172216 0.0126292 0.00401837 0.107313 0.285374 0.0620032 0.438792 0.0445151 0.0063593	0.825344 1.04913 0.000760585 0.428626 0.154289 1.00132 2.53838 0.125312 0.61714 1.13208 0.26852	ojui 1 1 1 1 1 1 1 1 1 1 1	4 AC022239 8 AC022239 -12 AC022239 -4 AC022239 12 AC068974 14 AC068974 10 AC068974 0 AC068974
0.363622 0.305708 0.977998 0.512664 0.69447 0.316991 0.111109 0.723343 0.432112 0.287331 0.604326 0.225515 0.335492 0.121956 0.0378667 0.66874 0.66874 0.66874	1.24469 1.0095 1.39E-10 1.35763 1.51E-11 1.59559 1.08063 0.70124 0.805706 1.26692 1.51E-16 0.526588 4.11E-12 5.33847 3.17E-10 3.50155 3.17E-10	60 60 60 60 60 55 55 55 55 55 55 55 55 55	0.616667 0.283333 0.0833332 2.58E-13 0.0166666 6.55E-14 0.154546 0.3 0.0454546 0.390909 0.0545454 1.08E-18 0.0181817 4.71E-14 0.0272728	811 811 811 811 811 574 574 574 574 574 574	0.65783 0.24106 0.0826141 0.00184957 0.0123305 0.00431566 0.102787 0.283972 0.0635889 0.44338 0.043554 0.00696864	0.654994 0.243972 0.0826636 0.00172216 0.0126292 0.00401837 0.107313 0.285374 0.0620032 0.438792 0.0445151	0.825344 1.04913 0.000760585 0.428626 0.154289 1.00132 2.53838 0.125312 0.61714 1.13208	1 1 1 1 1 1 1 1	4 AC022239 0 AC022239 8 AC022239 -12 AC022239 -8 AC022239 12 AC068974 14 AC068974 10 AC068974 0 AC068974
0.363622 0.305708 0.977998 0.512664 0.69447 0.316991 0.111109 0.723343 0.432112 0.287331 0.604326 0.225515 0.335492 0.121956 0.0378667 0.66874 0.66874 0.66874	1.24469 1.0095 1.39E-10 1.35763 1.51E-11 1.59559 1.08063 0.70124 0.805706 1.26692 1.51E-16 0.526588 4.11E-12 5.33847 3.17E-10 3.50155 3.17E-10	60 60 60 60 60 55 55 55 55 55 55 55 55 55	0.616667 0.283333 0.0833332 2.58E-13 0.0166666 6.55E-14 0.154546 0.3 0.0454546 0.390909 0.0545454 1.08E-18 0.0181817 4.71E-14 0.0272728	811 811 811 811 811 574 574 574 574 574 574	0.65783 0.24106 0.0826141 0.00184957 0.0123305 0.00431566 0.102787 0.283972 0.0635889 0.44338 0.043554 0.00696864	0.654994 0.243972 0.0826636 0.00172216 0.0126292 0.00401837 0.107313 0.285374 0.0620032 0.438792 0.0445151	1.04913 0.000760585 0.428626 0.154289 1.00132 2.53838 0.125312 0.61714 1.13208	1 1 1 1 1 1 1 1	4 AC022239 0 AC022239 8 AC022239 -12 AC022239 -8 AC022239 12 AC068974 14 AC068974 10 AC068974 0 AC068974
0.977998 0.512664 0.69447 0.316991 0.111109 0.723343 0.432112 0.287331 0.604326 0.225515 0.335492 0.121956 0.0378697 0.66874 0.66874 0.66874	1.0095 1.39E-10 1.35763 1.51E-11 1.59559 1.08063 0.70124 0.805706 1.26692 1.51E-16 0.526588 4.11E-12 5.33847 3.17E-10 3.50155 3.17E-10	60 60 60 55 55 55 55 55 55 55 55 55	0.0833332 2.58E-13 0.0166666 6.55E-14 0.154546 0.3 0.0454546 0.390909 0.0545454 1.06E-18 0.0181817 4.71E-14 0.0272728	811 811 811 574 574 574 574 574 574 574	0.0826141 0.00184957 0.0123305 0.00431566 0.102787 0.283972 0.0635889 0.44338 0.043554 0.00696864	0.0826638 0.00172216 0.0126292 0.00401837 0.107313 0.285374 0.0620032 0.438792 0.0445151	0.000760585 0.428626 0.154289 1.00132 2.53838 0.125312 0.61714 1.13208	1 1 1 1 1 1	8 AC022239 -12 AC022239 -4 AC022239 -8 AC022239 12 AC068974 14 AC068974 0 AC068974
0.512664 0.69447 0.316991. 0.111109 0.723343 0.432112 0.287331 0.604326 0.225515 0.335492 0.121956 0.0378667 0.66874 0.66874 0.66874	1.39E-10 1.35763 1.51E-11 1.59559 1.08063 0.70124 0.805706 1.26692 1.51E-16 0.526588 4.11E-12 5.33847 3.17E-10 3.50155 3.17E-10	60 60 55 55 55 55 55 55 55 55 55 55	2.58E-13 0.0166666 6.55E-14 0.154546 0.3 0.0454546 0.390909 0.0545454 1.06E-18 0.0181817 4.71E-14 0.0272728	811 811 574 574 574 574 574 574 574	0.00184957 0.0123305 0.00431566 0.102787 0.283972 0.0635889 0.44338 0.043554 0.00696864	0.00172216 0.0126292 0.00401837 0.107313 0.285374 0.0620032 0.438792 0.0445151	0.428626 0.154289 1.00132 2.53838 0.125312 0.61714 1.13208	1 1 1 1 1 1	-12 AC022239 -4 AC022239 -8 AC022239 12 AC068974 14 AC068974 0 AC068974
0.69447 0.316991 0.111109 0.723343 0.432112 0.287331 0.604326 0.225515 0.335492 0.121956 0.0378667 0.66874 0.66874 0.66874	1.35763 1.51E-11 1.59559 1.08063 0.70124 0.805706 1.26692 1.51E-16 0.526588 4.11E-12 5.33647 3.17E-10 3.50155 3.17E-10	60 55 55 55 55 55 55 55 55 55 55	0.0166666 6.55E-14 0.154546 0.3 0.0454546 0.390909 0.0545454 1.06E-18 0.0181817 4.71E-14 0.0272728	811 574 574 574 574 574 574 574	0.0123305 0.00431566 0.102787 0.283972 0.0635889 0.44338 0.043554 0.00696864	0.0126292 0.00401837 0.107313 0.285374 0.0620032 0.438792 0.0445151	0.154289 1.00132 2.53838 0.125312 0.61714 1.13208	1 1 1 1 1 1	-4 AC022239 -8 AC022239 12 AC068974 14 AC068974 10 AC068974 0 AC068974
0.316991 0.111109 0.723343 0.432112 0.287331 0.604326 0.225515 0.335492 0.121956 0.0378667 0.66874 0.66874 0.335342 0.66874	1.51E-11 1.59559 1.08063 0.70124 0.805706 1.26692 1.51E-16 0.526588 4.11E-12 5.33647 3.17E-10 3.50155 3.17E-10	60 55 55 55 55 55 55 55 55 55 55	6.55E-14 0.154546 0.3 0.0454546 0.390909 0.0545454 1.06E-18 0.0181817 4.71E-14 0.0272728	811 574 574 574 574 574 574 574	0.00431566 0.102787 0.283972 0.0635889 0.44338 0.043554 0.00696864	0.00401837 0.107313 0.285374 0.0620032 0.438792 0.0445151	1.00132 2.53838 0.125312 0.61714 1.13208	1 1 1 1	-8 AC022239 12 AC068974 14 AC068974 10 AC068974 0 AC068974
0.111109 0.723343 0.432112 0.287331 0.604326 0.225515 0.335492 0.121956 0.0378667 0.66874 0.66874 0.335342 0.66874	1.59559 1.08063 0.70124 0.805706 1.26692 1.51E-16 0.526588 4.11E-12 5.33647 3.17E-10 3.50155 3.17E-10	55 55 55 55 55 55 55 55 55	0.154546 0.3 0.0454546 0.390909 0.0545454 1.08E-18 0.0181817 4.71E-14 0.0272728	574 574 574 574 574 574 574	0.102787 0.283972 0.0635889 0.44338 0.043554 0.00696864	0.107313 0.285374 0.0620032 0.438792 0.0445151	2.53838 0.125312 0.61714 1.13208	1 1 1	12 AC068974 14 AC068974 10 AC068974 0 AC068974
0.723343 0.432112 0.287331 0.604326 0.225515 0.335492 0.121956 0.0378667 0.66874 0.66874 0.66874	1.08063 0.70124 0.805706 1.26692 1.51E-16 0.526588 4.11E-12 5.33647 3.17E-10 3.50155 3.17E-10	55 55 55 55 55 55 55 55	0.3 0.0454546 0.390909 0.0545454 1.06E-18 0.0181817 4.71E-14 0.0272728	574 574 574 574 574 574	0.283972 0.0635889 0.44338 0.043554 0.00696864	0.285374 0.0620032 0.438792 0.0445151	0.125312 0.61714 1.13208	1 1 1	14 AC068974 10 AC068974 0 AC068974
0.432112 0.287331 0.604326 0.225515 0.335492 0.121956 0.0378667 0.66874 0.66874 0.66874	0.70124 0.805706 1.26692 1.51E-16 0.526588 4.11E-12 5.33647 3.17E-10 3.50155 3.17E-10	55 55 55 55 55 55 55 55	0.0454546 0.390909 0.0545454 1.06E-18 0.0181817 4.71E-14 0.0272728	574 574 574 574 574	0.0635889 0.44338 0.043554 0.00696864	0.0620032 0.438792 0.0445151	0.61714 1.13208	1	10 AC068974 0 AC068974
0.287331 0.604326 0.225515 0.335492 0.121956 0.0378687 0.66874 0.66874 0.335342 0.66874	0.805706 1.26692 1.51E-16 0.526588 4.11E-12 5.33647 3.17E-10 3.50155 3.17E-10	55 55 55 55 55 55 55	0.390909 0.0545454 1.08E-18 0.0181817 4.71E-14 0.0272728	574 574 574 574	0.44338 0.043554 0.00696864	0.438792 0.0445151	1.13208	1	0 AC068974
0.604326 0.225515 0.335492 0.121956 0.0378697 0.66874 0.66874 0.335342 0.66874	1.26692 1.51E-16 0.526588 4.11E-12 5.33647 3.17E-10 3.50155 3.17E-10	55 55 55 55 55 55	0.0545454 1.06E-18 0.0181817 4.71E-14 0.0272728	574 574 574	0.043554 0.00696864	0.0445151			
0.225515 0.335492 0.121956 0.0378667 0.66874 0.66874 0.335342 0.66874	1.51E-16 0.526588 4.11E-12 5.33647 3.17E-10 3.17E-10 3.50155 3.17E-10	55 55 55 55 55	1.06E-18 0.0181817 4.71E-14 0.0272728	574 574	0.00696864				16 AC068974
0.335492 0.121956 0.0378667 0.66874 0.66874 0.335342 0.66874	0.526588 4.11E-12 5.33647 3.17E-10 3.17E-10 3.50155 3.17E-10	55 55 55 55	0.0181817 4.71E-14 0.0272728	574			1.46893	1	20 AC068974
0.121956 0.0378667 0.66874 0.66874 0.335342 0.66874	4.11E-12 5.33647 3.17E-10 3.17E-10 3.50155 3.17E-10	55 55	4.71E-14 0.0272728	574	0.0000161	0.0325914	0.927581	1	6 AC068974
0.66874 0.66874 0.335342 0.66874	3.17E-10 3.17E-10 3.50155 3.17E-10	55		014	0.011324	0.0103339	2.39201	1	8 AC068974
0.66874 0.335342 0.66874	3.17E-10 3.50155 3.17E-10			574	0.00522647	0.00715421	4.311	1	18 AC068974
0.335342 0.66874	3.50155 3.17E-10	55	2.76E-13	574	0.00087108	0.000794913	0.18308	1	2 AC068974
0.66874	3.17E-10		2.76E-13	574	0.00087108	0.000794913	0.18308	1	15 AC068974
		55	0.00909095	574	0.00261323	0.00317965	0.928159	1	-2 AC068974
0.111109		55	2.76E-13	574	0.00087108	0.000794913	0.18308	1	13 AC068974
	1.59559	55	0.154546	574	0.102787	0.107313	2.53838	1	12 AC068974
0.723343	1.08063	55	0.3	574	0.283972	0.285374	0.125312	1	14 AC068974
	0.70124	55	0.0454546	574	0.0635889	0.0620032	0.61714	1	10 AC068974
0.287331		55	0.390909	574	0.44338	0.438792	1.13208	1	0 AC068974
0.604326	1.26692	55	0.0545454	574	0.043554	0.0445151	0.26852	1	16 AC068974
	1.51E-16	55	1.06E-18	574	0.00696864	0.0063593	1.46893	1	20 AC068974
0.335492		55	0.0181817	574	0.0339721	0.0325914	0.927581	1	6 AC068974
0.121956 0.0378667		55 55	4.71E-14 0.0272728	574	0.011324	0.0103339	2.39201	1	8 AC068974
	5.33647 3.17E-10	55	2.76E-13	574 574	0.00522647 0.00087108	0.00715421 0.000794913	4.311	1	18 AC068974
	3.17E-10	55	2.76E-13	574 574	0.00087108	0.000794913	0.18308 0.18308	1	2 AC068974 15 AC068974
0.335342	3.50155	55	0.00909095	574	0.00261323	0.000794913	0.928159	1 1	-2 AC068974
	3.17E-10	55	2.76E-13	574	0.00201323	0.000794913	0.18308	1	13 AC068974
0.59902	1.14583	58	0.172414	780	0.153846	0.155131	0.276476	1	0 AF131215
	0.805799	58	0.293104	780	0.339744	0.336516	1.07476	1	2 AF131215
0.998415	1.00041	58	0.310345	780	0.310256	0.310263	3.94E-06	1	-2 AF131215
	0.552631	58	0.0172414	780	0.0307692	0.0298329	0.793693	1	22 AF131215
0.723982	1.18777	58	0.0431035	780	0.0365385	0.0369928	0.124709	1	10 AF131215
0.562829	1'.45259	58	0.025862	780	0.0179487	0.0184964	0.334829	1	-4 AF131215
0.699929	0.821431	58	0.0344828	780	0.0416687	0.0411695	0.148546	1	8 AF131215
0.320657	1.45959	58	0.0775862	780	0.0544872	0.0560859	0.986266	1	4 AF131215
0.294411	2.04424	58	0.025862	780	0.0128205	0.0137232	1.09934	1	-6 AF131215
. 0.592101	1.18E-14		1.52E-17	780	0.00128205	0.00119332	0.287074	1	12 AF131215
0.704833	4.37E-12	58	2.80E-15	780	0.000641025	0.000596659	0.143493	1	6 AF131218
		61	0.516394	780	0.534615	0.533294	0.150769	1	
0.579915	1.11131	61	0.426229	780	0.400641	0.402497	0.306372	1	4 AF13121
		61	0.0491803	780	0.0576923	0.0570749	0.158881	1	
0.501289	1.79E-11	61	3.45E-14	780	0.00192308	0.00178359	0.452205	1	-8 AF13121
0.676324	1.60332		0.00819677	780	0.0051282	0.00535077	0.174294	1	
			0.396552	795	0.430189	0.427902	0.502881	1	
0.184845 0.634514	1.29107		0.5 0.0689655	795 795	0.436478 0.0811321	0.440797	1.75824	1	14 AF13121
	0.285477		0.0086207	795 795	0.0011321	0.0803048 0.028136	0.225988	1	
0.12746	1.7323		0.0086207	795 795	0.0295597	0.028136	2.32292	1	8 AF13121
0.357529	6.82E-12			795	0.00377359	0.0138265	0.68578 0.846552	1	
0.337329	1.09E-10			795 795	0.00314465	0.003917	0.705246	1	
0.70741	1.51E-13				0.000628931	0.000586166	0.140878	1	
0.0963016	1.76706			801	0.062422	0.0652681	2.76575	1	
					0.347066	0.342657	2.14551	1	

24/90

FIG. 7B. R												
			5		ed	5				L		
-		-	உ	=	4	<u>2</u>		_	<u>0</u>	ķ		
p-val		#aff	aff.freq	#con	con.freq	H0.freq	Ş	info	allele	marker		
0.434288	0.590808	57	0.0175439	801	0.0293383	0.0285548	0.611329	╧	-12	AF188029-1		
0.832496	1.05185	57	0.210526	801	0.202247	0.202797	0.0447331	1		AF188029-1		
0.475623	0.83072	57	0.157895	801	0.184145	0.182401	0.508884	i		AF188029-1		
0.965978	1.02281	57	0.0350877	801	0.0343321	0.0343823	0.00181925	i		AF188029-1		
0.184115	1.67473	57	0.0789474	801	0.0486891	0.0506993	1.76409	1		AF188029-1		
0.261327	1.43339	57	0.114035	801	0.082397	0.0844988	1.26172	1		AF188029-1		
0.164433	3.63E-11	57	3.20E-13	801	0.00873908	0.00815851	1.93298	1	4	AF188029-1		
0.710751	3.94E-10	57	2.46E-13	801	0.000624219	0.000582751	0.137528	1	6	AF188029-1		
0.621405	1.10038	58	0.448276	804	0.424751	0.426334	0.243897	1	0	AF188029-10		
0.901714	0.937651	58	0.0344828	804	0.0366915	0.0365429	0.0152515	1		AF188029-10		
0.127551	0.736929	58	0.336207	804	0.407338	0.402552	2.32207	1		AF188029-10		
0.778226	1.12275	58	0.0603448	804	0.0541045	0.0545244	0.0793164	1		AF188029-10		
0.0990892	1.68676	58	0.12069	804	0.0752488	0.0783063	2.72014	1		AF188029-10		
0.597494	1.96E-10	58	2.45E-13	804	0.00124378	0.00116009	0.278792	1		AF188029-10		
0.708924 0.579137	1.64E-10 1.14863	58	1.02E-13	804	0.000621891	0.000580046	0.139354	1		AF188029-10		
0.985476	1.00657	56 56	0.196429 0.0803571	795	0.175472	0.176851	0.307631	1		AF188029-12		
0.593852	0.900594	56	0.535714	795 795	0.0798742	0.079906	0.000331374	1		AF188029-12		
0.978505	1.0072	56	0.333714	795	0.561635 0.159748	0.559929 0.159812	0.284369 0.00072591			AF188029-12		
0.543585	2.03734	56	0.00892862	795	0.00440251	0.00470035		1		AF188029-12 AF188029-12		
0.938849	0.945455	56	0.0178571	795	0.0188679	0.0188014	0.368935 0.00588534	1				
0.835837	0.961074	60	0.575	809	0.584672	0.584005	0.0429404	1		AF188029-12 AF188029-7		
0.691804	1.07951	60	0.408333	809	0.389988	0.391254	0.15714	1		AF188029-7		
0.81474	0.791399	60	0.00833334	809	0.0105068	0.0103567	0.0549035	1		AF188029-7		
0.142015	3.24E-12	60	3.03E-14	809	0.00927071	0.00863061	2.15599	1		AF188029-7		
0.449054	2.42E-10	60	6.00E-13	809	0.00247219	0.0023015	0.573038	1	_	AF188029-7		
0.417341	2.71092	60	0.00833333	809	0.00309024	0.00345224	0.657791	1		AF188029-7		
0.417636	1.20832	40	0.525	449	0.477728	0.481595	0.656957	1		AF287957-1		
0.0581369	0.622981	40	0.2875	449	0.393096	0.384458	3.58975	1	_	AF287957-1		
0.239885	0.464266	40	0.025	449	0.0523385	0.0501022	1.38127	1		AF287957-1		
0.149224	2.4349	40	0.05	449	0.0211581	0.0235174	2.08017	1		AF287957-1		
0.0339226	3.45491	40	0.0625001	449	0.018931	0.0224949	4.4986	1	4	AF287957-1		
0.345145	1.90477	40	0.0375001	449	0.0200445	0.0214724	0.891226	1	-2	AF287957-1		
0.767846	0.745149	40	0.0125	449	0.0167038	0.0163599	0.0871392	1	-14	AF287957-1		
0.368674	1.46881	61	0.0573771	867	0.0397924	0.0409483	0.808129	1		D8S1130		
0.16812	1.33239	61	0.303279	867	0.246251	0.25	1.89963	1		D8S1130		
0.868403	0.963438	61	0.221312	867	0.227797	0.227371	0.0274522	1		D8S1130		
0.0912015	0.642196	61	0.131148	867	0.190311	0.186422	2.85304	1		D8S1130		
0.699451	1.12656 0.825683	61	0.106557	867	0.0957324	0.096444	0.149044	1		D8S1130		
0.941492		61 61	0.131148	867	0.154556	0.153017	0.500819	1		D8S1130		
0.857508	0.834711	61	0.0327869 0.00819672	867	0.0340254	0.033944 0.00969828	0.00538681	1		D8S1130		
0.0195481	149070	61	0.00819672	867 867	0.00980392 5.54E-08	0.000538793	0.032237	1		D8S1130		
0.522835	1.35E-11	61	2.34E-14	867	0.0017301	0.000536793	5.4518 0.408298	1		D8S1130		
0.825877	0.954251	60	0.266667	839	0.275924	0.275306	0.0483969	1		D8S1130 D8S1469		
0.704363	1.07443	60	0.483333	839	0.465435	0.46663	0.143973	1				
0.450413	1.21164	60	0.175	839	0.148987	0.150723	0.569613	1		D8S1469 D8S1469		
0.191474	0.538409	60	0.0333333	839	0.0601907	0.0583982	1.70624	1		D8S1469		
0.270889	2.12565	60	0.0250001	839	0.0119189	0.012792	1.21224	1		D8S1469		
0.211151		60	0.0166667	839	0.0363528	0.0350389	1.56352	1		D8S1469		
0.599038	3.19E-12	60	3.80E-15	839	0.0011919	0.00111235	0.276449	i		D8S1469		
0.864964	1.03499	52	0.480769	845	0.472189	0.472687	0.0289198	1		D8S1695		
0.71935	1.15974	52	0.0673076	845	0.0585799	0.0590858	0.129116	1	_	D8S1695		
0.749006	0.90158	52	0.105769	845	0.115976	0.115385	0.102369	1		D8S1695		
0.355556		52	0.192308	845	0.230769	0.22854	0.85353	1		D8S1695		
0.834287	1.13769	52	0.0288462	845	0.0254438	0.025641	0.0437674	1		D8S1695		
0.23416	1.54304	52	0.0961539	845	0.064497	0.0663322	1.41541	1	6	D8S1695		
0.602845	1.81336	52	0.0096153	845	0.00532545	0.00557414	0.270726	1	14	D8S1695		

25/90

FIG. 7C.	Results	for Bipola	Disorder without	Danie Dicordon

FIG. /C.	FIG. 7C. Results for Bipolar Disorder without Panic Disorder											
1			aff.fred	 P.		*						
ley-d	<u> </u>	34 -	<u> </u>	5	con fred	H0.freq			a)	marker		
1 2	ξ.	#aff	#	#con	5	0	81	္ပ	allele	ž		
0.88514		9 52	0.0192307	845				<u>ii</u>		Ë		
0.3600	4 8.49E-1						0.0208667	1				
0.62491	9 5.76E-12	2 52					0.837755			-		
0.72960						0.000557414	0.239014	1				
0.8084	1 1.055			643			0.119473 0.0587953	1				
0.15846				643			1.98885	1				
0.46197			*********			0.404558	0.541116	1				
0.59584					0.12675		0.281315	i				
0.432878 0.0775081						0.0975783	0.615089	1				
0.46773					0.0388803		3.1164	1				
0.512398					0.00233282		0.527321	1	30 D8S1721			
0.691622			0.00847451	643 643	0.0155521		0.429173	1	8 D8S1721			
0.348332			2.84E-13		0.0124417 0.00388803		0.157335	1	32 D8S1721			
0.129906	3.04E-15		3.10E-17		0.0101089		0.879525	1	26 D8S1721			
0.675145			6.41E-14		0.000777605	0.000712251	2.29362	1	38 D8S1721	•		
0.675145			6.41E-14		0.000777605		0.175643 0.175643	1	6 D8S1721			
0.675145			6.41E-14	643	0.000777605	0.000712251	0.175643	1	-2 D8S1721			
0.0614298			0.532258	866	0.617783	0.612069	3.49835	i	-4 D8S1721 0 D8S1759			
0.634574 0.852221			0.104839	866	0.0918014	0.0926724	0.225909	1	2 D8S1759			
0.052221			0.0564515	866	0.0525404	0.0528017	0.0347024	1	10 D8S1759			
0.880877			0.16129	866	0.116051	0.119073	2.07579	1	12 D8S1759			
0.683338		62	0.016129 0.016129	866	0.0144342		0.0224573	1	8 D8S1759			
0.225795			0.0887097	866 866	0.0213626		0.166393	1	6 D8S1759			
	0.871956	62	0.00806456	866	0.0600462 0.00923787	0.0619612	1.46715	1	4 D8S1759			
0.922244		62	0.016129	866	0.00923787	0.00915948 0.0150862	0.0182392	. 1	16 D8S1759			
0.519328		62	6.62E-13	866	0.0017321	0.00161638	0.00952714	1	14 D8S1759			
0.456297		43	0.5	702	0.458689	0.461074	0.415229 0.554962	1	-2 D8S1759			
0.24022		43	0.0465116	702	0.0790598	0.0771812	1.3793	1	0 D8S1825			
0.960318		43	0.127907	702	0.126068	0.126174	0.00247554	1	8 D8S1825 10 D8S1825			
0.316577 0.361023		43	0.151163	702	0.193732	0.191275	1.00304	1	6 D8S1825			
0.222186		43 43	1.00E-16	702	0.00498575	0.00469799	0.834332	1	-2 D8S1825			
0.195893		43	0.151163	702	0.106838	0.109396	1.49019	1	2 D8S1825			
0.647625		43	8.19E-14 0.0232559	702 702	0.00997151	0.00939597	1.67273	1	12 D8S1825			
0.440285		43	2.69E-14	702	0.0163818 0.00356125	0.0167785	0.208908	1	4 D8S1825			
0.730184	1.47E-10	43	1.05E-13		0.000356125	0.0033557 0.000671141	0.595538	1	-1 D8S1825			
0.753881	1.07363	44	0.375	841	0.358502	0.359322	0.118943	1	14 D8S1825			
0.317205		44	0.0568181	841	0.0856124	0.0841808	0.0982984	1	4 D8S265			
0.078936	9.89E-13	44	1.80E-14	841	0.0178359	0.0169492	1.00044 3.08667	1	18 D8S265			
0.666891	1.17212	44	0.102273	841	0.088585	0.0892655	0.18526	1	6 D8S265 14 D8S265			
0.481601 0.395095	1.22653	44	0.181818	841	0.153389	0.154802	0.495235	i	0 D8S265			
0.897034	0.684796 0.96109	44	0.0568181	841	0.0808561	0.079661	0.723203	1	-5 D8S265			
0.172352	1.82619	44 44	0.147727	841	0.152794	0.152542	0.0167466	1	2 D8S265			
0.186827	1.32E-11	44	0.0795455 1.35E-13	841 841	0.0451843	0.0468927	1.86236	1	12 D8S265			
0.749417	4.63E-12	44	2.76E-15	841	0.010107	0.00960452	1.74246	1	16 D8S265			
0.579995	3.94E-11	44	7.04E-14	841	0.00039453	0.000564972	0.102022	1	-3 D8S265			
0.474836	1.14E-12	44	3.40E-15	841	0.00297265	0.00169492 0.00282486	0.306242		10 D8S265			
0.749417	4.63E-12	44	2.76E-15	841		0.000564972	0.5107	1	8 D8S265			
0.749417	4.63E-12	44	2.76E-15	841		0.000564972	0.102022 0.102022		20 D8S265			
0.749417	4.63E-12	44	2.76E-15	841		0.000564972	0.102022	1	1 D8S265 -4 D8S265			
0.993422		33	0.0909091	762	0.0912073	0.091195	6.80E-05	1	0 D8S351			
0.305742 0.430602	1.35317	33	0.257576	762	0.204068	0.206289	1.04898	-	18 D8S351			
	1.26016 0.964886	33	0.257576	762	0.215879	0.21761	0.621199	1	2 D8S351			
0.173787	0.31956	33 33	0.151515	762	0.156168	0.155975	0.0104814	1	6 D8S351			
	0.01800	JJ	0.0151515	762	0.0459318	0.0446541	1.84997		20 D8S351			
									-			

26/90

FIG. 7	D. Res	sults for	r Bipolar	Disorder	without F	Panic Disorder

110.75.1	results it	<i>7</i> , D		ruer	without Pan					
=			aff.freq	_	con.freq	HO.freq				ᡖ
p-val		#aff	#	#con	Ę	5		.0	allele	marker
0.215344	1.06E-11		1 205 10	_ <u>¥</u>	8		X	info	_	Ë
0.400003		33 33	1.26E-13 0.0454545	762			1.53513	•	10 D8S351	
0.603264			0.060606	762 762		0.0698113	0.708316	1		
0.33331	3.33405		0.0151515	762			0.270101	1		
0.634597	1.22072	_	0.106061	762			0.935995	1		
0.0926225	1.50E-11	33	3.32E-13	762			0.225878		16 D8S351	
0.274837	2.84E-12	33	2.63E-14	762			2.82819 .1.19245	1		
0.56006	5.87E-14	33	1.54E-16	762			0.339601	1		
0.448788		58	0.301724	825			0.573711	1		
0.980215	1.00633	58	0.172414	825	0.171515		0.000615032	1		
0.321893	1.2189	58	0.37931	825		0.33692	0.981241	1		
0.0359288		58	0.0172414	825		0.0543601	4.40048	1		
0.350094 0.26815	1.42442	58	0.0775863	825	0.0557576		0.873115	1		
0.382595	1.24E-11 1.49718	58 58	6.78E-14	825	0.00545455	0.00509626	1.22619	1	4 D8S503	
0.522981	2.30E-11	58	0.0517241 4.19E-14	825	0.0351515	0.0362401	0.762346	1	2 D8S503	
0.366136	1.20E-13	58	4.18E-14 4.38E-16	825 825	0.00181818	0.00169875	0.40801		-10 D8S503	
0.403745	0.855197	62	0.548387	876	0.00363636 0.586758	0.00339751	0.816738	1		
0.385815	1.21411	62	0.233871	876	0.200913	0.584222 0.203092	0.697146	1		
0.907354	1.03746	62	0.0967742	876	0.0936073	0.203092	0.752091	1		
0.871696	0.948964	62	0.0887098	876	0.0930365	0.0927505	0.0135436 0.0260839	1		
0.00364776	14.4546	62	0.0241935	876	0.00171233	0.00319829	8.45133	1		
0.0751962	5.94E-18	62	7.90E-20	876	0.0131279	0.0122601	3.16579	1		
0.761509	0.74155	62	0.00806452	876	0.0108447	0.010661	0.092112	1		
0.371238	1.19618	57	0.403509	663	0.361237	0.364583	0.799518	i		
0.402548	0.813844	57	0.184211	663	0.217195	0.214583	0.7007	1		
0.027895	4.30E-13	57	9.62E-15	663	0.0218703	0.0201389	4.83455	1		
0.62836	1.15818	57	0.122807	663	0.107843	0.109028	0.234292	1	0 D8S520	
0.577855 0.353393	0.791186 0.726123	57 57	0.0526315	663	0.0656109	0.0645833	0.309715	1	-10 D8S520	
0.0777413	1.65417	57 57	0.0789474 0.157895	663	0.105581	0.103472	0.861236	1	2 D8S520	
0.222305	1.57E-11	57	1.07E-13	663 663	0.10181	0.10625	3.1115	1	4 D8S520	
0.684583	2.16E-11	57	1.63E-14	663	0.00678733 0.000754148	0.00625	1.48943	1		
0.142149	5.08E-11	57	5.03E-13	663	0.00980392	0.000694444 0.00902778	0.165012	1	9 D8S520	
0.565574		57	4.26E-15	663	0.0015083	0.00902778	2.15454	1	-2 D8S520	
0.267119	0.808015	58	0.474138	840	0.527381	0.523942	0.330144 1.23148	1	12 D8S520	
0.0842544	1.53528	58	0.206897	840	0.145238	0.14922	2.98086	1	0 D8S542 4 D8S542	
0.893055		58	0.318965	840	0.325	0.32461	0.018074	i	2 D8S542	
0.526596	5.83E-11	58	1.04E-13	840	0.00178571	0.00167038	0.400955	1	-2 D8S542	
0.714754	5.94E-12	58	3.54E-15	840	0.000595238	0.000556793	0.133575		-12 D8S542	
0.930316	1.03056	55	0.0909091	814	0.0884521	0.0886076	0.0076471	1	-8 D8S550	
0.993832	1.00236 0.894133	55	0.118182	814	0.117936	0.117952	5.98E-05	1	12 D8S550	
	0.894133	55	0.0636364	814	0.0706388	0.0701956	0.0795925	1	-6 D8S550	
0.305257		55 55	0.263636	814	0.280098	0.279056	0.140305	1	14 D8S550	
0.076296	2.41396	55	0.109091	814	0.14312	0.140967	1.05109	1	-2 D8S550	
0.719432	1.14932	55	0.0545453 0.0727273	814	0.0233415	0.0253165	3.14209	1	8 D8S550	
0.204892	1.74582	55	0.0636362	814 814	0.0638821 0.0374693	0.0644419	0.129038	1	10 D8S550	
0.900611	1.09808	55	0.0030302	814	0.0374693	0.0391254	1.60716	1	18 D8S550	
0.384808		55	0.0636364	814	0.0866093	0.0166858 0.0851554	0.0155975	1	20 D8S550	
0.412013	1.36158	55	0.0818181	814	0.0614251	0.0627158	0.755287 0.672983	1	16 D8S550	
0.277346	3.77E-11	55	2.09E-13	814	0.00552826	0.00517837	1.18005	1	0 D8S550 2 D8S550	
	1.17E-12	55	2.89E-15	814	0.002457	0.0023015	0.523685	1	2 D8S550 22 D8S550	
0.608964		55	2.48E-16	814	0.0012285	0.00115075	0.261687	1	6 D8S550	
0.608964	2.02E-13	55	2.48E-16	814	0.0012285	0.00115075	0.261687	i	4 D8S550	
0.131551		16	0.46875	391	0.603581	0.59828	2.2741	1	1 DGOOAAH	3G
0.131551	1.72559	16	0.53125	391	0.396419	0.40172	2.2741	1	2 DGOOAAHE	
0.285177	0.773002	41	0.646341	725	0.702759	0.699739	1.14225	1	2 DGOOAAHE	

27/90

FIG. 7E. Results for Bipolar Disorder without Panic Di	Disorder
--	----------

FIG. 7E. Results for Bipolar Disorder without Panic Disorder										
}			ğ		con.freq	٠			آ ي	
ਲ		-	aff.freq	E	<u>+</u>	H0.freq		_	allele marker	
p-val	_	#aff	#	#con	5	Ö	23	info	allele mark	
0.285177	1.29366	41	0.353659	725	0.297241	0.300261	1.14225	-=	1 DG00AAHBH	
0.382271	0.806631	38	0.631579	811	0.680025	0.677856	0.763387	1	3 DG00AAHBI	
0.382271	1.23972	38	0.368421	811	0.319975	0.322144	0.763387	1	1 DG00AAHBI	
0.278007	1.3071	52	0.240385	531	0.194915	0.198971	1.17681	1	0 DG8S117	
0.278007	0.765052	52	0.759615	531	0.805085	0.801029	1.17681	1	9 DG8S117	
0.971671	0.988415	62	0.91129	826	0.912228	0.912162	0.00126118	1	0 DG8S118	
0.971671	1.01172	62	0.0887096	826	0.0877724	0.0878378	0.00126118	1	5 DG8S118	
	0.818662	52	0.394231	604	0.442881	0.439024	0.927712	1	0 DG8S127	
0.888013	0.956222	52	0.115385	604	0.120033	0.119665	0.01983	1	6 DG8S127	
0.258737	1.26033	52	0.490384	604	0.432947	0.4375	1.2755	1	1 DG8S127	
0.362993	1.54E-12 1.04506	52	6.38E-15	604	0.00413907	0.00381098	0.827511	1	2 DG8S127	
0.847624 0.847624		56 56	0.758929 0.241071	646 646	0.750774		0.0369218	1	0 DG8S128	
0.893296	0.973154	56	0.366072	772	,0.249226 0.372409	0.248575 0.371981	0.0369218 0.0179922	1	4 DG8S128	
	0.800914	56	0.482143	772	0.537565	0.533816	1.28547	1	4 DG8S130 0 DG8S130	
0.540972	1.63315	56	0.0178571	772	0.0110104	0.0114734	0.373742	1	-4 DG8S130	
0.173265	6.94598	56	0.0089286	772	0.00129533	0.00181159	1.85446	1	12 DG8S130	
0.169927	1.8395	56	0.0625	772	0.0349741	0.0368357	1.88359	i	-16 DG8S130	
0.208801	1.73918	56	0.0624999	772	0.0369171	0.0386473	1.57972	i	8 DG8S130	
0.358847	7.02E-11	56	2.74E-13	772	0.00388601	0.00362319	0.841924	1	-12 DG8S130	
0.516655	1.44E-10	56	2.80E-13	772	0.00194301	0.00181159	0.420566	1	-8 DG8S130	
0.94086	0.980424	60	0.85	739	0.852503		0.00550408	1	0 DG8S134	
0.877445	0.959107	60	0.141667	739	0.14682	0.146433	0.0237803	1	4 DG8S134	
0.109039	12.4118	60	0.00833336	739	0.000676588	0.00125156	2.5681	1	2 DG8S134	
1	1	57	0.657895	779	0.657895	0.657895	-9.09E-13	1	0 DG8S136	
0.112226	0.373997	57	0.017544	779	0.0455712	0.0436603	2.52259	1	6 DG8S136	
0.648818	1.1734	57	0.0877193	779	0.0757381	0.076555	0.207393	1	-6 DG8S136	
0.605035	1.24131	57	0.0614035	779	0.0500642	0.0508373	0.267469	1	2 DG8S136	
0.113172	0.4357	57	0.0263158	779	0.0584082	0.0562201	2.50935	1	4 DG8S136	
0.359938 0.812303	1.41477 0.868891	57 57	0.0789473 0.0263158	779	0.0571245	0.0586124	0.838111	1	-4 DG8S136	
0.707013	8.09E-11	57	5.20E-14	779 779	0.0301669 0.000641848	0.0299043 0.000598086	0.0563853	1	-2 DG8S136	
0.243919	1.98701	57	0.0350877	779	0.0179718	0.0191388	0.141279 1.3578	1	-10 DG8S136 8 DG8S136	
0.400351	7.17E-13	57	2.31E-15	779	0.00320924	0.00299043	0.707272	1	-8 DG8S136	
0.594973	6.71E-12	57	8.62E-15	779	0.0012837	0.00119617	0.282645	1	10 DG8S136	
0.253998	4.58704	57	0.00877195	779	0.00192554	0.00239234	1.30118	1	-14 DG8S136	
0.604575	0.779604	11	0.272727	234	0.324786	0.322449	0.268151	1	-2 DG8S137	
0.33397	1.95338	11	0.136363	234	0.0747863	0.077551	0.933443	1	2 DG8S137	
0.291975	1.90022	11	0.181818	234	0.104701	0.108163	1.11049	1	6 DG8S137	
	0.880952	11	0.0454546	234	0.0512821	0.0510204	0.0152496	1	10 DG8S137	
0.631526	0.768256	11	0.181819	234	0.224359	0.222449	0.229998	1	0 DG8S137	
0.960863	0.963635	11	0.090909	234	0.0940171	0.0938776	0.00240792	1	-4 DG8S137	
0.398795	0.458876	11	0.0454547	234	0.0940171	0.0918367	0.711955	1	4 DG8S137	
0.409548	2.73812 7.21E-11	11	0.045455	234	0.017094	0.0183673	0.680111	1	12 DG8S137	
0.543528 0.761687	2.17E-11	11 11	6.21E-13 4.64E-13	234 234	0.00854701	0.00816327	0.36904	1	8 DG8S137	
0.667845	3.71E-10	11	4.04E-13	234	0.00213675	0.00204082	0.0919703	1	14 DG8S137	
0.366532	0.7517	55	0.0999999	761	0.00427351	0.00408163 0.126838	0.184133	1	18 DG8S137	
0.356408	1.33812	55	0.0333333	761	0.870565	0.872549	0.815387 0.850512	1	-1 DG8S138 0 DG8S138	
0.708673	1.75E-12	55	1.15E-15	761		0.000612745	0.139606	1	1 DG8\$138	
0.887346	1.03081	49	0.408163	585	0.400855	0.40142	0.0200685	1	0 DG8S147	
0.900469		49	0.591837	585	0.598291	0.597792	0.0156423	i	2 DG8S147	
0.688292	4.37E-11	49	3.73E-14	585		0.000788644	0.16094	i	1 DG8S147	
0.636615	0.830118	59	0.0593221	694	0.0706052	0.0697211	0.223196	1	-4 DG8S148	
0.545287	1.13556	59	0.305085	694	0.278818	0.280876	0.365829	1	2 DG8S148	
	0.761006	59	0.194915	694	0.241354	0.237716	1.34889	1	-2 DG8S148	
0.633681	1.09821	59	0.398305	694	0.376081	0.377822	0.227103	1	0 DG8S148	
0.89712	1.07176	59	0.0338982	694	0.0317003	0.0318725	0.0167185	1	4 DG8\$148	
•										

(

28/90

FIG. 7F.	Results for Bipolar	Disorder without Panic Disorder

FIG. 7F. F	results it	01 6	ipolar Diso							
· _			aff.freq	• _	con.freq	5			_	_
p-val		#aff	î.fr	#con	i.	H0.freq	•	٥	allele	marker
0.0239166			<u> </u>	<u>₩</u>		웊	Ş	info	<u> </u>	па
0.567669					7.80E-08	0.000664011	5.10067		1 6 DG8S148	
0.263405					0.00144092	0.00132802	0.326599	•	1 -17 DG8S148	
0.857201					0.427061 0.120507	0.431548	1.25077		1 -2 DG8S153	
0.165944					0.0158562	0.12004 0.014881	0.0323776	1		
0.332639		31			0.138478	0.135913	1.91921 0.938597	1		
0.960209				473	0.12685	0.126984	0.00248915	1		
0.743331					0.0581395	0.0575397	0.10722	1		
0.99324 0.0729489					0.0486258	0.0486111	7.18E-05	1		
0.410177					0.0264271	0.0248016	3.21539	1		
0.425003				473 473	0.0285412	0.0297619	0.678288	1		
0.296624					0.00528541 0.00422833	0.00496032 0.00496032	0.63644	1		
0.735263	1.10639			453	0.311258	0.3125	1.08931 0.114334	1		
0.488737			0.12963	453	0.0993378	0.101042	0.479305	1		
0.742857				453	0.0253863	0.025	0.107632	1		
0.975996				453	0.093819	0.09375	0.000905323	1		
0.304698 0.684405		27 27		453	0.245033	0.241667	1.05352	1		
0.823623	1.10598	27		453	0.0695364	0.06875	0.16521	1		
0.799212		27		453 453	0.101545 0.0441501	0.102083	0.0496789	1		
0.555291	3.06E-11	27		453	0.00331126	0.04375 0.003125	0.0647029	1		
0.0775904	17.0753	27	0.0185184	453	0.00110376	0.00208333	0.347924 3.11467	1	-10 DG8S155 -16 DG8S155	
0.73358	5.32E-10	27	5.87E-13	453	0.00110375	0.00104167	0.11585	1	-2 DG8S155	
0.0775904	17.0753	27	0.0185184	453	0.00110376	0.00208333	3.11467		-12 DG8S155	
0.555291 0.190234	3.06E-11	27	1.02E-13	453	0.00331126	0.003125	0.347924	1	16 DG8S155	•
0.161363	1.29628 0.75991	56 56	0.446429	777	0.383526	0.387755	1.7158	1	6 DG8S156	
0.810832	1.13757	56	0.5 0.0357143	777 777	0.568211	0.563625	1.9614	1	0 DG8S156	
0.249986	4.65763	56	0.00892853	777	0.0315315 0.0019305	0.0318127	0.0572896	1	-6 DG8S156	
	0.599689	56	0.0089286	777	0.0148005	0.00240096 0.0144058	1.32338	1	3 DG8S156	
0.271315	0.652005	⁻ 51	0.911765	556	0.940648	0.938221	0.290454 1.21009	1	9 DG8S156	
0.373416	1.47229	51	0.0686274	556	0.0476619	0.0494234	0.792264	1	0 DG8S159 -2 DG8S159	
0.519798	1.69077	51	0.0196079	556	0.0116906	0.0123558	0.414294	1	2 DG8S159	
0.833341 0.833341	0.959682 1.04201	58 58	0.413793	735	0.42381	0.423077	0.0442757	1	0 DG8S161	
0.904333	1.02303	60	0.586207 0.475	735	0.57619	0.576923	0.0442757	1	2 DG8S161	
0.904333	0.977488	60	0.475	815 815	0.469325	0.469714	0.0144454	1	0 DG8S163	
0.368949	1.21796	48	0.375	759	0.530675 0.33004	0.530286 0.332714	0.0144454	1	3 DG8S163	
0.473152	0.8554	48	0.614583	759	0.650856	0.648699	0.807201 0.514605	1	0 DG8S170	
0.695445	0.684212	48	0.0104167	759	0.0151515	0.0148699	0.153254	1	2 DG8S170 -4 DG8S170	
0.620301	9.85E-13	48	1.30E-15	759	0.00131752	0.00123916	0.245444		-19 DG8S170	
0.620301 0.620301	9.85E-13	48	1.30E-15	759	0.00131752	0.00123916	0.245444	i	-2 DG8S170	
0.114214	9.85E-13 0.728131	48 57	1.30E-15	759	0.00131752	0.00123916	0.245444	1	-8 DG8S170	
0.909639	1.1292	57	0.359649 0.00877188	643	0.435459	0.429286	2.49492	1	14 DG8S177	
0.387023	1.49758	57	0.0526315	643 643	0.00777605 0.0357698	0.00785714	0.0128809	1	20 DG8S177	
0.314179	1.2498	57	0.280702	643	0.237947	0.0371429 0.241429	0.748274	1	10 DG8S177	
0.567176	0.817801	57	0.0789475	643	0.0948678	0.0935714	1.01303 0.32743	1	12 DG8S177	
0.662838	1.13278	57	0.140351	643	0.125972	0.127143	0.190095	1	18 DG8S177 16 DG8S177	
0.559832	2.02E-10	57	3.15E-13	643	0.00155521	0.00142857	0.339996	1	2 DG8S177	
0.453995 0.660657	1.32747	57 52	0.0789473	643	0.0606532	0.0621429	0.560659	1	0 DG8S177	
	1.09408 0.914005	52 52	0.548077	622	0.525723	0.527448	0.192727	1	0 DG8S179	
	0.784423	52 57	0.451923 0.22807	622	0.474277	0.472552	0.192727	1	7 DG8S179	
	0.861652	57	0.236842	625 625	0.2736 0.2648	0.269795 0.262463	1.13515	1	10 DG8S181	
0.585288	1.19538	57	0.105263	625	0.0896	0.262463	0.430386	1	12 DG8S181	
0.249849	1.52807	57	0.0877193	625	0.0592	0.0615836	0.297763 1.32415	1	0 DG8S181 14 DG8S181	
							1102710	•	ומופסטע די	

29/90

FIG. 7G. Results for Bipolar Disorder without Panic Disorder

_	IG. 7G. Results for Bipolar Disorder without Panic Disorder											
ł				5		con.freq	Ĕ					<u>.</u>
l	ਂ ਵਰ			aff.freq	=	岸	H0.freq		_	<u>o</u>		marker
l	p-val		#aff	#	#con	5	ē	ğ	info	allele		펺
L	0.099905	0.561959	57	0.0701756	625	0.1184	0.11437	2.70706	-		DG8S181	드
	0.099905	1.43453	57	0.0701756	625	0.1184	0.140029		1	-	DG8S181	
	0.170025	0.911411	57	0.0263158	625	0.0288	0.0285924	1.87745 0.0237791	1		DG8S181	
	0.268346	4.65E-12	57	2.62E-14	625	0.0056	0.00513196	1.22518	1		DG8S181	
	0.139686	2.48889	57	0.0350877	625	0.0144	0.016129	2.18142	i	_	DG8S181	
	0.0827705	5.56247	57	0.0175438	625	0.00320001	0.00439883	3.00964	1		DG8S181	
	0.774579	1.3739	57	0.00877194	625	0.0064	0.00659824	0.0820192	1		DG8S181	
	0.154481	0.604252	44	0.875	818	0.920538	0.918213	2.02743	1	0	DG8S182	
	0.154481	1.65495	44	0.125	818	0.0794621	0.0817865	2.02743	1	-3	DG8S182	
	0.918548	1.02608	47	0.765957	641	0.76131	0.761628	0.0104576	1	0	DG8S188	
	0.918548	0.974583	47	0.234043	641	0.23869	0.238372	0.0104576	1	-1	DG8S188	
	0.500557	1.17799	37	0.594595	568	0.554577	0.557025	0.453756	1		DG8S192	
	0.330595	1.3395	37	0.216216	568	0.170775	0.173554	0.946565	1		DG8S192	
	0.0585889	2.08E-12	37	5.25E-14	568	0.0246479	0.0231405	3.57689	1		DG8S192	
	0.678379	0.808381	37	0.0540541	568	0.0660211	0.0652893	0.171956	1		DG8S192	
	0.59723	0.798803	37	0.0810811	568	0.0994718	0.0983471	0.279193	1		DG8S192	
	0.523483	0.724957	37	0.0540541	568	0.0730634	0.0719008	0.407025	1		DG8S192	
	0.426469 0.476998	5.26E-12 3.49E-10	37 37	2.33E-14 1.23E-12	568 568	0.00440141 0.00352113	0.00413223 0.00330579	0.63242 0.50572	1		DG8S192 DG8S192	
	0.476996	2.80E-10	37	4.94E-15	568	0.00352113	0.00330579	0.252644	1		DG8S192	
	0.61522	2.80E-12	37	4.94E-15	568	0.00176056	0.00165289	0.252644	1		DG8S192	
	0.546339	0.890507	62	0.604839	730	0.632192	0.630051	0.363916	1		DG8S192	
	0.546339	1.12296	62	0.395161	730	0.367808	0.369949	0.363916	i		DG8S197	
	0.238022	1.253	60	0.558333	677	0.502216	0.506784	1.39227	i		DG8\$201	
	0.978142	0.994481	60	0.333333	677	0.334564	0.334464	0.000750696	i		DG8S201	
	0.192591	0.666736	60	0.0916667	677	0,131462	0,128223	1.69769	1		DG8\$201	
	0.317853	0.516752	60	0.0166667	677	0.0317578	0.0305292	0.99776	1		DG8\$201	
	0.73154	1.17216	62	0.959677	735	0.953061	0.953576	0.117702	. 1	0	DG8S212	
	0.73154	0.853125	62	0.0403226	735	0.0469388	0.0464241	0.117702	1	2	DG8S212	
	0.58951	0.870115	35	0.614286	392	0.646684	0.644028	0.291109	1	4	DG8S215	
	0.560161	1.1622		0.385714	392	0.350765	0.35363	0.339425	1	_	DG8S215	
	0.558385	1.05E-12	35	2.68E-15	392	0.00255102	0.00234192	0.342508	1		DG8S215	1
	0.0871529	1.4521	51	0.45098	292	0.361301	0.374636	2.92619	1		DG85221	
	0.31001	1.26739	51	0.323529	292	0.273973	0.281341	1.03063	1		DG8S221	
	0.278737	0.540566	51	0.0294117	292	0.0530822	0.0495627	1.17324	1		DG8\$221	
	0.295148	0.688172		0.0882353	292	0.123288	0.118076	1.09599	1		DG85221	
	0.0270241 0.740381	0.474096 0.712872		0.0882353 0.00980394	292 292	0.169521 0.0136986	0.157434 0.0131195	4.88927 0.109792	1		DG8S221 DG8S221	
	0.740381	1.42E-14		2.44E-17	292	0.00171233	0.00145773	0.322208	1		DG85221	
	0.423644	2.88119		0.00980392	292	0.00171233	0.00437318	0.640186	1		DG85221	
	0.288824	1,2375	_	0.37931	726	0.330579	0.334184	1.1251	i		DG8S232	
	0.816519	0.954799		0.37069	726	0.381543	0.38074	0.0538355	i		DG8S232	
	0.310151	0.742327		0.112069	726	0.145317	0.142857	1.03003	ì		DG8S232	
	0.867702			0.0775862	726	0.0819559	0.0816327	0.0277481	1		DG8S232	
	0.207478	0.445616	58	0.0172415	726	0.0378788	0.036352	1.58894	1	4	DG8\$232	2
	0.126512	2.29086	58	0.0431034	726	0.0192837	0.0210459	2.33479	1	-2	DG8S232	2
	0.694959	1.33E-12	58	9.19E-16	726	0.000688705	0.000637755	0.153769	1	-6	DG8S232	2
	0.432654			1.02E-17	726	0.00275482	0.00255102	0.615689	1		DG8S232	
	0.0894128	1.94577		0.951613	672	0.90997	0.913488	2.88491	1		DG8\$238	
	0.0894128			0.0483871	672	0.0900298	0.0865123	2.88491	1	_	DG8S238	
	0.274709	0.76358		0.581081	476	0.644958	0.640351	1.19308	1		DG8S242	
	0.274709	1.30962		0.418919	476	0.355042	0.359649	. 1.19308	1		DG8S242	
	0.0454729	2.18298		0.949153	468	0.895299	0.901328	4.00101	1		DG88245	
		0.826128		0.0508475	468	0.0608974	0.0597723	0.196643	1		DG85246	
	0.00211384 0.49051			1.93E-14 5.60E-17	468	0.0416667 0.00213675	0.0370019	9.44796	1		DG88248	
	0.49051				468 682	0.00213675	0.00189753 0.567439	0.475408 0.381241	1		3 DG8S245 3 DG8S249	
	0.53694				682	0.181085	0.567439	0.381241	1		DG88249 DG88249	
	U,47U347	1.41328	. 52	U.Z I 1939	002	0.101000	0.100240	0.070302	•	- 12	000248	,

30/90

FIG. 7H. Results for Bipolar Disorder without Panic Disorder

FIG. 7H. R	FIG. 7H. Results for Bipolar Disorder without Panic Disorder											
I												
ज्ञ ।		9	aff.freq	=	con.freq	H0.freq			<u>o</u>	marker		
p-val		#aff	#	#con	Ö	9	×	info	ailele	혈		
0.545259	0.566061	52	0.00961538	682	0.0168622	0.0163488	0.36588		-17 DG8S249	_=_		
0.618479	0.6209	52	0.00961543	682	0.0153959	0.0149864	0.248011		-21 DG8S249			
0.693429	0.869599	52	0.0865384	682	0.0982405	0.0974114	0.155398	1	-2 DG8S249			
0.348212	2.20916	52	0.0192308	682	0.00879765	0.00953678	0.879961	1	6 DG8S249			
0.144024 0.0648878	1.84322 3.14E-12	52 52	0.0769229	682	0.0432551	0.0456403	2.13443	1	2 DG8S249			
0.11288	1.22E-11	52	5.38E-14 1.54E-13	682 682	0.0168622 0.0124633	0.0156676 0.0115804	3.40783	1	-6 DG8S249			
0.309862	3.95E-12	52	2.04E-14	682	0.00513196	0.00476839	2.51343 1.03126	1	4 DG8S249			
0.413523	1.51515	52	0.0480769	682	0.0322581	0.0333787	0.668649	1	-1 DG8S249 -4 DG8S249			
0.19623	1.62032	61	0.0819673	584	0.052226	0.0550388	1.67021		-10 DG8S250			
0.574063	0.880554	61	0.221311	584	0.244007	0.24186	0.315932	1	-4 DG8S250			
0.296023	1.32061	61	0.163934	584	0.129281	0.132558	1.09203	1	2 DG8S250			
0.412746 0.0459515	1.2111 0.620924	61	0.221311	584	0.190068	0.193023	0.670878	1	4 DG8S250			
0.689122	1.16071	61 61	0.172131 0.0737705	584 584	0.250856	0.243411	3.98337	1	0 DG8S250			
0.138411	2.45E-13	61	2.33E-15	584	0.0642123 0.00941781	0.0651163 0.00852713	0.160038	1	-2 DG8S250			
0.178086	2.65164	61	0.0245902	584	0.00941781	0.0108527	2.19554 1.81352	1	8 DG8S250 -8 DG8S250			
0.796756	0.829713	61	0.0163935	584	0.0196918	0.0193798	0.0663309	1	6 DG8S250			
0.64033	0.635261	61	0.00819671	584	0.0128425	0.0124031	0.218311		-12 DG8S250			
0.874558	1.12843	61	0.0163934	584	0.0145548	0.0147287	0.0249236	1	-6 DG8S250			
0.372264	3.74E-12	61	1.28E-14	584	0.00342466	0.00310078	0.796093	1	12 DG8S250			
0.725989 0.819751	1.07153 0.954377	61 61	0.647541 0.303279	680	0.631618	0.632928	0.122826	1	0 DG8S257			
0.270525	0.546218	61	0.303279	680 680	0.313235 0.0441177	0.312416	0.0519225	1.	-2 DG8S257			
0.558965	1.6024	61	0.0163936	680	0.0102941	0.0425101 0.0107962	1.21408	1 1	-6 DG8S257			
0.121356	11.2314	61	0.00819671	680	0.000735295	0.00134953	0.341499 2.39973	1	2 DG8S257 -9 DG8S257			
0.639807	1.12067	55	0.218182	637	0.199372	0.200867	0.218995	i	15 DG8S258			
0.319529	1.22222	55	0.6	637	0.55102	0.554913	0.990872	1	18 DG8S258			
0.076313	0.624114	55	0.145455	637	0.214286	0.208815	3.14173	1	12 DG8S258			
0.102499 0.564768	1.10E-11 3.16E-15	55 55	1.40E-13	637	0.0125589	0.0115607	2.66622	1	0 DG8S258			
0.564768	3.16E-15	55	4.98E-18 4.98E-18	637 637	0.00156986	0.00144509	0.331515	1	33 DG8S258			
0.601723	1.40074	55	0.0272727	637	0.00156986 0.0196232	0.00144509 0.0202312	0.331515		24 DG8S258			
0.0243049	143973	55	0.00909017	637	6.37E-08	0.0202512	0.272405 5.07274	1	21 DG8S258 11 DG8S258			
0.421668	0.8133	37	0.662162	549	0.706739	0.703925	0.645661	1	2 DG8S261			
0.421668	1.22956	37	0.337838	549	0.29326	0.296075	0.645661	i	0 DG8S261			
0.685216	0.75139	37	0.0270271	561	0.0356506	0.0351171	0.164313	1	-4 DG8S262			
0.790829	0.93827	37	0.513513	561	0.529412	0.528428	0.0703492	1	0 DG8S262			
0.832714 0.646493	1.09169 1.13866	37 37	0.0945949	561	0.087344	0.0877926	0.0446145		10 DG8S262			
0.65731	0.732383	37	0.243243 0.027027	561 561	0.220143 0.0365419	0.221572	0.21035	1	2 DG8S262			
0.835834	1.10586	37	0.0675677	561	0.0303419	0.0359532 0.0618729	0.196808	1	-2 DG8S262			
0.509432	1.70371	37	0.0270271	561	0.0160428	0.0167224	0.0429424 0.435233	1	4 DG8S262 6 DG8S262			
0.474342	5.07E-11	37	1.81E-13	561	0.00356508	0.00334448	0.511843	1	8 DG8S262			
0.234749	2.33E-11	37	2.30E-13	561	0.00980392	0.00919732	1.41185	-	14 DG8S262			
0.320699	1.25582	60	0.233333	751	0.195073	0.197904	0.986093		15 DG8S265			
	0.965833	60	0.55	751	0.558589	0.557953	0.0331966	1	18 DG8S265			
0.0864804 0.48687	6.77E-12 0.845934	60 60	8.67E-14 0.183333	751	0.0126498	0.0117139	2.9387	1	0 DG8S265			
0.579128	3.48E-12	60	4.64E-15	751 751	0.20972 · 0.00133156	0.207768	0.483436		12 DG8S265			
0.600177	1.40076	60	0.025	751	0.00133136	0.00123305 0.0184957	0.307647 0.274729		33 DG8S265			
0.612115	1.79472	_	0.00833334	751	0.00466045	0.00493218	0.257106	1	21 DG8S265 -6 DG8S265			
0.758941	0.938379	51	0.441177	615	0.456911	0.455706	0.0941703	1	-2 DG8S266			
0.375468	1.20102	51	0.480392	615	0.434959	0.438438	0.785488	i	0 DG8S266			
0.330063	0.701968	51	0.0784314	615	0.10813	0.105856	0.948651	1	-4 DG8S266			
0.862197 0.509776	0.966728	60 60	0.383333	741	0.391363	0.390762	0.0301294	1	-4 DG8S269			
0.0357162	2.51045	60	0.55 0.066665	741 741	0.580972 0.0276653	0.578652	0.434526	1	0 DG8S269			
			0.000000	,-71	0.02/0003	0.0305868	4.41061	1	-5 DG8S269			

31/90

FIG. 7I. Results for Bipolar Disorder without Panic Disorder

FIG. 71. Results for Bipolar Disorder without Panic Disorder										
	р о г									
<u> </u>	₹ .	54	aff.freq	Ş	con.freq	H0.freq	•		<u>o</u>	marker
leve	.	#aff	#	#con	9	<u>.</u>	ğ	info	allele	ğ
0.17380	5 0.672634		0.227273	567	0.304233	0.3				E
0.21797				567			1.84982 1.51766	1	-2 DG8S271 0 DG8S271	
0.43014	7 0.674487			567			0.622426	1	2 DG8S271	
0.011843		33	0.0303031	567		0.00333333	6.3342	1	4 DG8S271	
0.91213				674		0.00956284	0.0121764	1	-6 DG8S277	
0.9470				674		0.273224	0.00440712	1	10 DG8S277	
0.056016				674			3.65156	1	0 DG8S277	
0.73064 0.075151				674		0.0778689	0.118521	1	-2 DG8S277	
0.28954			0.172414 0.0344827	674		0.237705	3.16675	1	2 DG8S277	
0.94070			0.0344627	674 674		0.0546448	1.12175	1	8 DG8S277	
0.36314		58		674		0.0163934 0.0034153	0.00553268	1	4 DG8S277	
0.25407			0.0258619	674		0.0129781	0.826977 1.30074	1	14 DG8S277	
0.4535		58	0.0086207	674		0.0163934	0.561863	1	6 DG8S277 12 DG8S277	
0.2221	1 1.36E-13	58	9.13E-16	674		0.00614754	1.49069	1	-4 DG8S277	
0.50408		48	0.625	576		0.592949	0.446328	1	0 DG8S285	
0.39535		48	0.28125	576		0.319712	0.722397	1	2 DG8S285	
0.66489			0.0833334	576		0.0721154	0.187632	1	1 DG8S285	
0.672 0.35656		48	0.0104166	576		0.0152244	0.178576	.1	-1 DG8S285	
0.9116		61 61	0.565574 0.229508	500		0.604278	0.849961	1	0 DG8S291	
0.016273		61	0.229308	500 500	0.234 0.103	0.233512 0.111408	0.0123005	1	4 DG8S291	
0.10437		61	0.0163934	500	0.103	0.111408	5.77312	1	2 DG8S291	
0.844816		61	0.00819676	500	0.044	0.00980392	2.63735 0.038313	1	-2 DG8S291 6 DG8S291	
0.8393	0.953758	47	0.702128	729	0.711934	0.71134	0.038313	1	2 DG8S292	
0.8393		47	0.297872	729	0.288066	0.28866	0.0411182	1	0 DG8S292	
0.40387		54	0.212963	727	0.248281	0.245839	0.696758	i	12 DG8S297	
0.16726		54	0.416667	727	0.350069	0.354673	1.90727	1	0 DG8S297	
0.203843		54	0.0277779	727	0.0536451	0.0518566	1.61463	1	14 DG8S297	
0.564603 0.530464		54 54	0.111111 0.0185185	727	0.129986	0.128681	0.331796	1	4 DG8S297	
0.4322		54	0.0165165	727 727	0.0281981 0.121733	0.0275288	0.393502	1	10 DG8S297	
0.0683897		54	2.41E-13	727	0.121733	0.12356 0.0147247	0.616716	1	16 DG8S297	
0.561417		54	0.0277778	727	0.0192572	0.0198464	3.32125 0.337257	1	8 DG8S297 18 DG8S297	
0.0491363	4.5873	54	0.0277778	727	0.00618982	0.00768246	3.87069	1	-4 DG8S297	
0.389089		54	0.00925929	727	0.019945	0.0192061	0.741788	1	6 DG8S297	
0.704978		54	1.66E-14	727	0.000687757	0.000640205	0.143345	1	2 DG8S297	
0.255396		54	1.68E-13	727	0.00618982	0.00576184	1.29354	1	-2 DG8S297	
0.501664 0.48337		60	0.791667	726	0.816804	0.814885	0.451414	1	0 DG8S298	
0.46337		60 60	0.2 0.00833332	726 726	0.174242	0.176209	0.49125	1	2 DG8S298	
0.446864		60	0.841667	602	0.00895317 0.813953	0.00890585	0.0049217	1	1 DG8S298	
0.446864		60	0.158333	602	0.186047	0.816465 0.183535	0.578595	1	0 DG8S301	
0.756783		59	0.330508	666	0.344595	0.343448	0.578595 0.0959195	1	1 DG8S301	
0.798986		59	0.330509	666	0.319069	0.32	0.0648514	1	26 DG8S302 28 DG8S302	
	0.881765	59	0.110169	666	0.123123	0.122069	0.17428	1	24 DG8S302	
0.354682		59	0.0762711	666	0.0548048	0.0565517	0.856634	1	30 DG8S302	
	0.956303	59	0.152542	666	0.158408	0.157931	0.0282879	1	0 DG8S302	
0.716308 0.511442		50	0.77	756	0.753968	0.754963	0.132057	1	2 DG8S303	
	0.889546	50 50	0.00999994	756	0.00462963	0.00496278	0.431115	1	4 DG8S303	
0.720383		50	0.22 1.42E-15	756 756	0.240741 0.000661376	0.239454 0.000620347	0.225585	1	-2 DG8S303	
0.527856		27	0.666667	315	0.707936	0.704678	0.128126	1	0 DG8S303	
0.403115		27	0.203704	315	0.15873	0.764678	0.398517 0.699016	1	4 DG8S307	
0.631224	1.36652	27	0.0555557	315	0.0412698	0.0423977	0.230404	1	0 DG8S307 8 DG8S307	
0.649847		27	0.0740741	315	0.0920635	0.0906433	0.206094	1	-4 DG8S307	
0.230715		55	0.572727	689	0.630624	0.626344	1.43645	1	0 DG8S308	
0.859933	1.0476	55	0.172727	689	0.166183	0.166667	0.0311381	1	2 DG8S308	
									_	

32/90

FIG. 7J. Results for Bipolar Disorder without Panic Disorder

FIG. 7J. Results for Bipolar Disorder without Panic Disorder										
1					con.freq					
ज़ ।		!	aff.freq	5	Ę	H0.freq			0	marker
p-val		#aff	E.	#con	5	<u></u>	2	info	aliele	ā
0.342117	1.35534	55	0.118182	689	0.0899855	0.0920699	0.902483	<u>.≒</u>	-14 DG8S308	트
0.158839		55	0.0909091	689	0.0558781	0.0584677	1.98525	1	-4 DG8S308	
0.229603		55	0.0363637	689	0.0181422	0.0194892	1.44332	1	4 DG8S308	
0.20954		55	0.00909089	689	0.0261248	0.0248656	1.5746	1	-6 DG8S308	
0.09531	1.16E-15	55	1.53E-17	689	0.0130624	0.0120968	2.78232	1	-2 DG8S308	
0.233649		61	1.34E-14	660	0.0060606	0.00554785	1.41851	1	8 DG8S316	
0.90597		61	0.311475	660	0.316667	0.316227	0.0139532	1	10 DG8S316	
0.917848 0.492863		61	0.42623	660	0.431061	0.430652	0.0106387	1	0 DG8S316	
0.378811	0.803044 1.28211	61 61	0.0901639	660	0.109848	0.108183	0.47027	1	12 DG8S316	
0.334599	1.75593	61	0.139344 0.0327868	660 660	0.112121 0.0189394	0.114424	0.774558	1	14 DG8S316	
0.265328	3.41E-11	61	1.82E-13	660	0.00530303	0.020111	0.931016	1	16 DG8S316	
0.427873		31	0.354839	606	0.405116	0.00485437 0.402669	1.24074	1	2 DG8S316	
0.637181	1.34977	31	0.048387	606	0.0363036	0.0368917	0.628589 0.222449	1	2 DG8S322 10 DG8S322	
0.188944	1.4144	31	0.451613	606	0.367987	0.372057	1.72584	1	0 DG8S322	
0.145344	0.499649	31	0.0645162	606	0.121287	0.118524	2.12045	1	4 DG8S322	
0.738106	1.17794	31	0.0806451	606	0.0693069	0.0698587	0.111799	i	6 DG8S322	
0.858146	1.0385	62	0.733871	700	0.726429	0.727034	0.0319461	1	0 DG8S323	
0.858146	0.96293	62	0.266129	700	0.273571	0.272966	0.0319461	1	5 DG8S323	
0.737494	0.93203	60	0.283333	695	0.297842	0.296689	0.112342	1	0 DG8S324	
0.891325	1.08814	60	0.025	695	0.0230216	0.0231788	0.018667	1	10 DG8S324	
0.451315 0.610258	0.836462 1.12657	60	0.191667	695	0.220863	0.218543	0.567348	1	8 DG8S324	
0.784209	1.08289	60 60	0.216667	695	0.197122	0.198675	0.259799	1	2 DG8S324	
0.949648	1.00209	60	0.125 0.125	695 695	0.116547	0.117219	0.0749874	1	6 DG8S324	
0.433781	1.56322	60	0.0333333	695	0.123022 0.0215827	0.123179	0.00398783	1	4 DG8S324	
0.424208	0.782798	56	0.107143	726	0.13292	0.0225166 0.131074	0.612678	1	12 DG8S324	
0.776646	1.10954	56	0.0803571	726	0.0730028	0.0735294	0.638627 0.0804817	1	-4 DG8S332	
0.374309	0.812204	56	0.214286	726	0.251377	0.248721	0.789309	1	4 DG8S332 2 DG8S332	
0.285306	1.26095	56	0.303571	726	0.256887	0.26023	1.14164	i	0 DG8S332	
0.605396	0.885167	56	0.214286	726	0.235537	0.234015	0.266934	i	-2 DG8S332	
0.504794	1.3969	56	0.0446429	726	0.0323691	0.0332481	0.444843	1	6 DG8S332	
0.231896	2.03133	56	0.0357142	726	0.0179063	0.0191816	1.4292	1	-6 DG8S332	
0.542218	0.868101	51	0.264706	539	0.293135	0.290678	0.371444	1	-5 DG8S333	
0.542218 1	1.15194	51	0.735294	539	0.706865	0.709322	0.371444	1	0 DG8S333	
1	1	0	0.638728	173	0.638728	0.638728	_ 0	1	1 INVSNP	
0.178207	0.769592	61	0.361272 0.352459	173 764	0.361272	0.361272	0	1	2 INVSNP	
0.178207	1.29939	61	0.647541	764	0.414267 0.585733	0.409697	1.81251	1	1 SG08S100	
0.0845721	0.706471	58	0.396551	387	0.565733 0.481912	0.590303 0.470787	1.81251	1	2 SG08S100	
0.0845721	1.41548	58	0.603448	387	0.518088	0.529213	2.97477 2.97477	1	1 SG08S102	
0.637875	0.908047	61	0.647541	390	0.669231	0.666297	0.221532	1	2 SG08S102	
0.637875	1.10127	61	0.352459	390	0.330769	0.333703	0.221532	1	0 SG08S112 2 SG08S112	
0.527988	1.12903	60	0.583333	700	0.553571	0.555921	0.398263	i	0 SG08S120	
0.527988		60	0.416667	700	0.446429	0.444079	0.398263	i	2 SG08S120	
	0.838721	60	0.708333	746	0.743298	0.740695	0.690592	1	0 SG08S138	
0.405963	1.19229	60	0.291667	746	0.256702	0.259305	0.690592	1	2 SG08S138	
	0.854262	34	0.82353	391	0.845269	0.843529	0.217346	1	1 SG08S139	
0.64107	1.1706	34	0.176471	391	0.154731	0.156471	0.217346	1	0 SG08S139	
0.866941	0.968661 1.03235	61 61	0.557377	713	0.565217	0.564599	0.0280712	1	0 SG08S15	
0.168402	1.03235	61	0.442623 0.516394	713	0.434783	0.435401	0.0280712	1	2 SG08S15	
	0.770884	61	0.516394	701 701	0.451498	0.456693	1.89711	1	0 SG08S26	
0.145968	1.3272	61	0.463607	397	0.548502 0.445844	0.543307 · 0.45524	1.89711	1	2 SG08S26	
	0.753463	61	0.483607	397	0.554156	0.45524 0.54476 ¹	2.11388	1	2 SG08S27	
0.223599		58	0.560345	397	0.619647	0.612088	2.11388 1.48112	1	1 SG08S27	
0.223599	1.27825	58	0.439655	397	0.380353	0.387912	1.48112	1	1 SG08S32 0 SG08S32	
0.308774	1.22057	61	0.639344	618	0.592233	0.596465	1.03591	1	1 SG08S35	
								•	. 555555	

33/90

FIG. 7K.	. Results	for Bipolar	Disorder	without Pa	nic Disorder

FIG. 7K. Results for Bipolar Disorder without Panic Disorder										
 			aff.freq	_	con.freq	H0.freq			m '	ē
p-val	_	#aff		#con	ë.	0.fi	8	info	allele	marker
0.308774		61	0.360656	618	<u>ა</u> 0.407767		<u> </u>			Ĕ
0.518451			0.467213	523	0.498088	0.403535 0.494863	1.03591	1	2 SG08S35	
0.518451			0.532787	523	0.501912	0.494663	0.416973	1	1 SG08S39	
0.533866			0.415254		0.386067	0.388369	0.416973	1	0 SG08S39	
0.533866		59	0.584746	689	0.613933	0.565569	0.387027	1	0 SG08S42	
0.654111			0.114754	610	0.101639	0.102832	0.387027	1	2 SG08S42	
0.654111			0.885246	610	0.898361	0.897168	0.200756	1	1 SG08S46	
0.189			0.542373	743	0.604307	0.599751	0.200756	1	3 SG08S46	
0.189	1.28858	59	0.457627	743	0.395693	0.400249	1.72539	1	0 SG08S5	
0.565554			0.466102	685	0.438686	0.44086	1.72539	1	2 SG08S5	
0.565554	0.895211	59	0.533898	685	0.561314	0.55914	0.330178 0.330178	1	2 SG08S50	
0.069287	0.693897	57	0.456141	381	- 0.547244	0.535388	3.29983	1	0 SG08S50	
0.069287	1.44114	57	0.54386	381	0.452756	0.464612	3.29983	-	0 SG08S506	
0.16987	0.75		0.3	396	0.363636	0.355263		1	2 SG08S506	
0.16987		60	0.7	396	0.636364	0.644737	1.88409 1.88409	1	2 SG08S507	
0.276852	0.802329	58	0.387931	392	0.441326	0.434444		1	3 SG08S507	
0.276852		58	0.612069	392	0.558674	0.565556	1.18248	1	1 SG08S508	
0.463684		58	0.818965	371	0.789757	0.793706	1.18248	1	3 SG08S508	
0.463684		58	0.181035	371	0.210243	0.206294	0.536987	1	1 SG08S510	
0.897524		58	0.413793	362	0.407459	0.200294	0.536987	1	0 SG08S510	
0.897524		58	0.586207	362	0.592541	0.591667	0.0165867	1	1 SG08S511	
0.538636		57	0.429825	388	0.399484	0.403371	0.0165867	1	3 SG08S511	
0.538636		57	0.570175	388	0.600516	0.596629	0.378074	1	2 SG08S512	
0.276978		61	0.418032	392	0.470663	0.463576	0.378074	1	1 SG08S512	
0.276978		61	0.581967	392	0.529337	0.536424	1.18186	1	1 SG08S517	
0.246826	1.25791	61	0.614754	397	0.559194	0.566594	1.18186	1	3 SG08S517	
0.246826		61	0.385246	397	0.440806	0.433406	1.34118	1	1 SG08S520	
0.998424		59	0.728813	391	0.7289	0.728889	1.34118	1	0 SG08S520	
0.998424	1.00044	59	0.271187	391	0.2711	0.271111	3.90E-06 3.90E-06	1	2 SG08S6	
0.200406		59	0.440678	380	0.503947	0.495444	1.63941	1	0 SG08S6	
0.200406	1.28943	59	0.559322	380	0.496053	0.504556	1.63941	1	1 SG08S70	
0.0732312	1.40539	61	0.590164	740	0.506081	0.512484	3.20907	1	3 SG08S70	
0.0732312	0.711544	61	0.409836	740	0.493919	0.487516		1	0 SG08S71	
0.252356	0.7983	60	0.458333	378	0.51455	0.506849	3.20907	1	2 SG08S71	
0.252356	1.25266	60	0.541667	378	0.48545	0.493151	1.31021	1	3 SG08S73	
0.830216	0.958777	60	0.466667	394	0.477157	0.475771	1.31021 0.0459779	1	1 SG08S73	
0.830216	1.043	60	0.533333	394	0.522843	0.524229		1	1 SG08S76	
0.781553	1.0559	60	0.525	394	0.511421	0.513216	0.0459779 0.0768933	1	2 SG08S76	\
0.781553	0.947063	60	0.475	394	0.488579	0.486784	0.0768933	1	0 SG08S90	`
0.234935	0.760584	62	0.774194	705	0.81844	0.814863		1	1 SG08S90	
0.234935	1.31478	62	0.225806	705	0.18156	0.185137	1.41073	1	1 SG08S93	
0.402568	0.83199	56	0.294643	362	0.334254	0.103137	1.41073 0.700643	1	2 SG08S93	
0.402568	1.20194	56	0.705357	362	0.665746	0.671053	0.700643	1	0 SG08S94	
0.124832	1.34391	60	0.483333	586	0.41041	0.417183	2.35562	1	2 SG08S94	
0.124832	0.744099	60	0.516667	586	0.58959	0.582817	2.35562	1	2 SG08S95	
0.965393	1.00838	61	0.581967	613	0.579935	0.580119	0.00188245		3 SG08S95	
0.965393	0.991686	61	0.418033	613	0.420065	0.419881	0.00188245	1 1	2 SG08S96	
0.500983	0.81986	61	0.877049	713	0.896914	0.895349	0.452853	-	3 SG08S96	
0.500983	1.21972	61	0.122951	713	0.103086	0.104651	0.452853	1	0 SG08S97	
		-		•		0.104001	0.402003	1	1 SG08S97	

34/90

Chrs	Marker	Position in	bases according to Build 33
C08	AF287957-1	6609501	
C08	DG8S285	6717625	
C08	DG8S316	7996504	•
C08	DG8S201	8078430	
C08	DG8S307	8079177	·
C08	DG8S332	8133961	
C08	DG8S322	8166275	
C08	DG8S324	8238280	•
C08	DG8S258	8335265	
C08	DG8S265	8335265	
C08	DG8S303	8377219	
C08	DG8S269	8547384	
C08	DG8S232	8602797	•
C08	DG8S249	8612390	
C08	DG8S298	8623920	
C08	D8S351	8647934	
C08	D8S1825	8795901	FIG. 8A
C08	SG08S138	8799779	
C08	SG08S6	8801073	
C08	DG00AAHBI	8889014	
C08	D8S1469	8960671	
C08	DG00AAHBH	9035511	
C08	D8S503	9104198	
C08	DG00AAHBG	9132391	
C08	DG8S277	.9205638	
C08	DG8S297	9226230	
C08	D8S516	9280975	
C08	DG8S177	9315167	
C08	DG8S137	9503869	
C08	DG8S182	9516392	
C08	DG8S262	9560368	
C08	DG8S136	9647411	
C08	DG8S179	9697364	•
C08	DG8S134	9774278	
	SG08S93	9794410	
	SG08S112	9804270	
	DG8S138	9815189	
	SG08S15	9851027	
	DG8S128	9943010	
	SG08S100	9961132	
C08	SG08S39	9971559	
	D8S1721	10011582	
	D8S542	10028442	
	DG8S302	10062565	
	DG8S257	10128880	
	SG08S120	10154461	
	DG8S266	10161672	
	DG8S238	10223621	
	DG8S323	10259523	
_	DG8S155 DG8S291	10297139 10313503	
	D8S520 SG08S506	10427394	
	SG08S42	10492671 10574489	
	SG08S50	10574468	
000	J900300	10001001	,

35/90

C08	DG8S148	10609020
C08	DG8S271	10624569
C08	DG8S197	10625200
C08	DG8S215	10641313
C08	DG8S159	10704990
C08	DG8S212	10726663
C08	D8S550	10752550
C08	SG08S94	10763565
C08	SG08S95	10810525
C08	SG08S96	10829574
C08	SG08S5	10857894
C08	SG08S102	10865779
C08	AF131215-1	10872575
C08		10881766
C08	SG08S70	10881783
C08	AF131215-2	10885941
C08	SG08S71	10887924
C08	SG08S517	10893214
C08	AF131215-4	10912771
C08	SG08S508	10914173
C08	SG08S73	10914271
C08	DG8S118	10923128
C08	DG8S161	10925492
C08	DG8S127	10926764
C08	SG08S520	10931667
C08	DG8S153	10938731
C08	SG08S510	10990033
C08	DG8S242	11023805
C08	SG08S90	11028406
C08	SG08S32	11048161
C08	DG8S156	11054915
C08	DG8S147	11071336
C08	SG08S511	
		11077298
C08	SG08S512	11077399
C08		11086652
C08	SG08S26	11090369
C08	D8S265	11150773
C08	D8S1695	11220756
C08	SG08S46	11234300
C08	DG8S130	11239181
C08		11253693
C08	SG08S139	11282021
C08	DG8S170	11287781
C08	DG8S261	11303006
C08	D8S1759	11348674
C08	DG8S117	11350993
C08	AC022239-5	11355629
	DG8S181	
C08		11390001
C08	SG08S97	11410417
C08	DG8S163	11458431
C08	DG8S221	11473774
C08	SG08S76	11477186
C08	DG8S292	11509365
C08	DG8S333	11607597
C08	D8S1130	1
		11704969
C08	AC068974-2	11824194

FIG. 8B

		36/90
C08 AC068974-2	11974598	
C08 DG8S250	12427095	
C08 AF188029-1	12517357	•
C08 AF188029-7	12558445	
C08 AF188029-10	12572944	
C08 AF188029-12	12583159	
C08 DG8S301	12612075	
C08 DG8S308	12617557	
C08 DG8S188	12654843	
C08 DG8S245	12665541	
C08 DG8S192	12759031	FIG. 8C

37/90

							•	71170			
#name	chrom	strand	txStart	txEnd	cdsStart	cdsEnd		exonStarts	exonEnds	proteinID	aligniD
AF355799	chr8	•	7004812	7007356	7005040	7006887	nt 3	7004812,7005734,700 293,	7 7006058,7006921,700 358,	7 OSTEZ3	19512
NM_0040 84	chr8	:	7014400	7016826	7014521	7015386	3	7014400,7015211,7010 757,	7014831,7015398,701 825,	B DEFN_H UMAN	dna66
AF355799	chr8	•	7023915	7028459	7024143	7024990	3	7023915,7024837,7026 398,	7024161,7025024,702 459,	8 QBTEZ3	19511
BC02791	chr8	-	7033503	7035918	7033624	7034485	3	7033503,7034310,7036 856,	7033734,7034497,703 916,	DEFN_H UMAN	3745
NM_0052 17	chr8	•	7033507	7035929	7033624	7034485	3	7033507,7034310,7038	7033734,7034497,703 929,		dna68
NM_0210 10	chr8	•	7072941	7074372	7073088	7074332	2	7072941,7074160,	7073178,7074372,	DEF5_HU MAN	dna69
AK09041	chr8	•	7278254	7283114	7282743	7283114	1	7278264,	7283114,	Q8NF81	17680
AK09041	chr8	•	7285876	7290738	7290385	7290738	1	7285876,	7290736,	Q8NF81	17679
AK09041 8	chr8	•	7293498	-7298358	7297987	7298358	1	7293498,	7298368,	QBNF81	17582
AK09041 8	chr8	•	7301120	7305980	7305609	7305980	1	7301120,	7305980,	Q8NF61	17583
AK09041 8	chr8	•	7308742	7313602	7313231	7313602	1	7308742,	7313602,	Q8NF81	17581
AF301470	chr8	-	7448803	7447983	7446618	7447785	2	7448603,7447707,	7446764,7447983,	D103_HU MAN	3648
AF168616	chr8	-	7468250	7481306	7488513	7481138		7468250,7468758,7480 341,7481077,	7468535,7468834,7480 494,7481305,		38437
AJ314834	chr8	•	7487938	7492717	7487990	7492703	_	7487938,7492645,	7488151,7492717,	D104_HU MAN	3649
AJ314834	chr8	+	7565027	7569803	7565041	7569751	2	7565027,7569590,	7565099,7569803,	D104_HU MAN	3650
AF301470	chr8	+	7809760	7611140	7609978	7611125	2	7609760,7610979,	7610036,7611140,	D103_HU MAN	3647
Z71389	chr8	+ ,	7623246	7625268	7623269	7625167	2	7623246,7625030,	7623327,7625268,	BD02_HU MAN	2333
U87595 AF217970	chr8 chr8	÷	7929832 7968927	7930426 7973420	7929832 7969257	7930426 7969701		7929832, 7988927,7972655,	7930426, 7970989,7973420,	O15314 Q9HBS9	7294 31542
AL833872	chr8	•	8048292	8056878	8046710	8056876	_	8046292,8056260,	8047853,8056876,	Q8N3N5	13675
BC01604	chr8	.	8431012	8432652	B431012	8431822	1	8431012,	8432652,	Q96B33	21598
7 BC01422	chr8	-	8514282	8620457	8514568	8620457		8514282,8525909,8618 805,	8514800,8526038,8620	Q96CID	22026
6 AB01681	chr8	•	8514568	8821603	8514568	8621603	3 (=	457, 8514600,8526036,8821 603.	Q9Y4C4	37002
AL137679	chr8	•	8731388	8761883	8746898	8758579	8 8	3731388,8736514,8740	8731716,8736693,8740 297,8744950,8748951,	Q9N5X3	32471
BC03527	chr8	+	8731484	8759524	8731608	8758579	7 8		883, 8731716,8736693,8740 297,8744950,8746961,	Q8IV48	11048
AK02406	chr8	-	8866640	8879241	8869338	8870196		3748894,8758336, 3868540,8879107,	8749009,8759524, 8870213,8879241,	Q9H812	30500
7 AF082557	chr8	•	9308729	9510891	9308729	9505281	4 9 9 4 1 1 9 2	195,9409268,9433207, 4434731,9435355,9438 115,9438499,9439688, 1448818,9455185,9459 134,9481823,9483409, 1463921,9475568,9480 53,9481088,9490080, 491691,9493250,9494 38,9494783,9498650,	037,9438591,9438765, 9449090,9455265,9469 580,9451989,9463629, 9464031,9470757,9480 391,9481171,9490181, 9491789,9493335,9484 342,9494970,9498807,		39059
AJ242973 (chr8 ·	٠	9782860	10157287	9783061	10166857	69	782860,9936377,9973 48,10030078,1004842	9510891, 9783203,9936448,9973 768,10030183,1004853 4,10157287,	MSRA_H UMAN	6395
AY16834 G	:hr8 •		10334893	10383647	10335439	10351748	4 1	0334893,10344990,10	10341891,10345132,10 351765,10383647,	QBIWN7	11558
AK05555 0	:hr8 -		10453281	10459057	10454282	10458978	2 1	0453281,10458740,		SOX7_HU MAN	38397
AK00057 0	thr8 -		10493703	10568416	10493945	10568301	5 1 8	54696,10580209,1058 438,10563210,105682 2,	10494461,10548814,10 554789,10560288,1066 1629,10563320,105684 16.	PII1_HUM AN	9150
BC02414 0	thr8 -		10624663	10731028	10626496	10653302	3 1	0624663,10653178,10	10627461,10653375,10 (731026,	Q8TBA0	18467
AJ305312 C	hr8 -		10838335	10838271	10836720	10837011	1 1	0836336,	10838271,	89WWB	20435

							38/90	
AJ312027	chr8	-	10851925	10854609	10852331	10862637	2 10851925,10854302, 10853381,10854609, Q8TCU8	18953
AJ312026	chr8		10855014	10858780	10857345	10857588	2 10855014,10857203, 10855816,10858780, Q8TCU9	18954
AJ307469			10885446	10867152	10866041	10866326	1 10865446, 10867152, Q8WWP5	20432
AJ301560			10923010	10929883	10923665	10929883	2 10923010,10929119; 10923785,10929883, Q96KT3	24395
AJ301561			10976169	10996409	10976169	10976257	2 10976169,10996332, 10976333,10996409, Q96KT2	24394
AJ291676			11012043	11013612	11012551	11012914	1 11012043, 11013612, Q96KT6	24398
AJ297823		+	11013350	11056681	11013432	11051332	10 11013350,11023737,11 11013614,11023846,11 Q98QG7	25632
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							028686,11033384,1103 028892,11033558,1103 4733,11038070,110434 4951,11038232,110436 66,11045218,11048230 08,11045437,11048382 ,11051188, ,11056881,	
AL080178	chr8	+ .	11045418	11053063	11045418	11051332	3 11045418,11048230,11 11045437,11048382,11 Q8Y4N8 051168, 053063,	37070
AJ291677	chr8	+	11059529	11080730	11059650	11060667	1 11059529, 11060730, Q86KT7	24397
AJ301562	chr8	•	11068180	11096998	11068221	11093347	9 11068180,11084648,11 11088263,11084835,11 Q96KT1 086679,11087767,1108 086722,11087828,1109 9929,11090178,110932 0079,11090351,110935 63,11094126,11096822 33,11094332,1109698	24393
AK05776 1	chr8	•	11076188	11094632	11084663	11093347	8 11076188,11083812,11 11076249,11083722,11 Q96LV6 084848,11086679,1108 084836,11088722,1108 7767,11090178,110932 7828,11090351,110935 63,11094126, 33,11094632,	24652
AY10118 6	chr8	+	11084663	110942 68	11084663	11093347	7 11084653,11086679,11 11084835,11086722,11 Q8IZJ8 087767,11089929,1109 087828,11090079,1109 0178,11093263,110941 0351,11093533,110942	12514
AY10118 7	chrB	+	11084683	11094266	11084663	11091466	7 11084663,11086679,11 11084835,11086722,11 Q8IZJ5 087757,11090178,1109 087828,11090351,1109 1451,11093263,110941 1517,11083533,110942	12513
AJ301563	chr8	+	11098945	11167201	11163609	11167086	26, 68, 7 11096945,11112356,11 11096996,11112545,11 Q96KTO 129609,11162463,1116 129709,11162679,1116 3373,11166583,111669 3646,11166764,111672	24392
AL834122	chrB	•	11150006	111,95288	11152918	11172955	79, 3 11150006,11172574,11 11153180,11173352,11 CH13_HU 196169, 195288, MAN	3027
S76617	chr8	+	11222543	11293142	11271767	11292651	13 11222643,11271766,11 11223134,11271890,11 BLK_HU 274894,11278574,1127 274846,11278668,1127 MAN 7666,11278701,112832 7685,11278805,112834 88,11283874,11285200 32,11284027,11285380 ,11286504,11289844,1 11286581,1128995,1 1291621,11292445, 1291623,11293142,	2373
AJ291678	chr8	+	11305077	11309884	11309412	11309691	3 11305077,11306912,11 11305880,11307184,11 Q98KT6 309012, 309884,	24396
AF318320	chr8	+	11436561	11439084	11436855	11437479	1 11436561, 11439084, Q8WYX6	20868
L34357	chr8	+	11438615	11487674	11436855	11487018	6 11436815,11477461,11 11437471,11477628,11 GAT4_HU 478653,11483588,1148 478779,11483676,1148 MAN 6477,11486836, 6826,11487674,	4597
AK05553 4	chr8	+	11489798	11491766	11489956	11490849	1 11489798, 11491768, Q98NF6	25169
AK09738 (chr8	+	11498251	11515888	11508185	11514816	4 11498251,11508140,11 11498334,11508493,11 Q8N842 511746,11514505, 611942,11615888,	15149
AK05620 6	chr8	+	11498290	11515888	11499990	11514816	5 11498290,11499988,11 11498878,11500128,11 Q969S2 508140,11511745,1151 508493,11511942,1151	21234
X69141 (chr8	+	11531288	11567841	11531375	11567152	4505, 8 11531288,11537336,11 11531474,11637434,11 FDFT_HU 538208,11550292,1155 538393,11550421,1165 MAN 4586,11558786,115600 4758,11568963,115602 60,11588930, 13,11567841,	4319
BC01024 0	chr8	-	11572868	11596622	11573567	11581997	11 11572898,11574203,11 11573765,11574332,11 CATB_HU 675594,11576221,1157 675711,11576365,1157 MAN 6609,11677588,115794 6695,11577707,115795 08,11681152,11581871 23,11581238,11582022	2738
Y18460	chr8	•	11574222	11579423	11574222	11579423	,11592918,11596549, ,11593006,11596622, 7 11574222,11575694,11 11574332,11575711,11 CAA7717 576221,11576609,1157 576365,11576695,1157 8 7588,11577656,115794 7650,11577707,115794 08, 23,	2565
AK09125	chr8	+	11742884	11746017	11743049	11744126	1 11742684, 11748017, Q8N249	13155
AK09813 (chr8	-	12057113	12069056	12060419	12069044	7 12057113,12058189,12 12058086,12058580,12 Q8N7N1 060357,12061681,1208 060507,12081815,1208 4782,12086752,120889 4883,12086815,120890 48.	14992
BC00798	chr8	•	12057125	12068656	12057828	12057981	8 12057125,12058137,12 12058085,12058690,12 Q96HX9 060357,12061333,1206 060507,12061599,1206 1681,12064782,120667 1815,12064863,120666 52,12068553, 15,120686554	23596
AK09441 7	chr8	•	12197852	12199613	12197857	12198316	2 12197852,12198352, 12198324,12199613, Q8N9J4	1 5842

2	۵	/9	r
٦,	4	/ 7	٧.

							57150			
AK09254	chr8	+	12211006	12213990	12211155	12211554	1 12211008,	12213990,	Q8NAJ9	16005
4 AK07432 9	chr8 -	•	12354606	12369463	12355798	12369406	7 12354608,12358427,12 361601,12361874,1236 4436,12367986,123694	381764,12362033,1236		19288
BC00453	chr8	•	12354608	12361920	12355798	12361920	01, 4 12354608,12358427,12 361601,12361874,	63, 12366955,12358580,12 361764,12361920,	Q98SV1	26939

FIG. 9A3

40/90

							40/3	70	•			
	#name	chrom	strand	txStart	txEnd	cdsStart	cdsEnd	exonCount	exonStarts	exonEnds	proteinID	alignID
	AB002292	chr8		1822721	2057379	1922721	2056009		,1956705,195864 2,1963118,18652 71,1967938,197 316,1978793,198 1380,1984346,19 92314,1993138,1 995078,1997178, 2002028,2004318		ı	7189
	BC040474	chr8	+	1957500	2002856	1965341	2002251	13	,1963115,196527 1,1967939,19753 16,1981380,1984	1957662,1958930,196318 2,1965348,1967998,1975 480,1981495,1984453,19 92392,1983318,1995195, 1997271,2002856,	Q8IWD9	11475 ;
	BC036809	chr8	.+	1974798	2026259	1975308	2025284	15	,1984346,199231 4,1993138,19950 78,1997178,2002	1975480, 1981495, 198446 3,1992392,1993318,1995 195,1997271,2002197,20 04462,2008216,2021825, 2022341,2022620,202415 0,2026259,	Q8IY77	12062
	AF009205	chr8	•	1981401	2057387	1981401	2056009		,1992314,199313 8,1995078,19971 78,2002026,2004 316,2008040,202 1709,2022213,20	1981495, 1984453, 199239 2,1993318,1995195,1997 271,2002197,2004462,20 08216,2021825,2022341, 2022620,2024150,202739 6,2028189,2032688,2044 401,2051573,2057387,	O14685	7078
	AB018254	chr8	+	2072623	2105682	2099938	2101810	2	2072623,2099030	2072681,2105682,	Y711_HU	39892
	X69089	Chr8	+	2143527	2243960	2149460	2243485		,2150855,215604 6,2156320,21578 63,2167976,2168 145,2171004,217 1988,2174800,21 77394,217820,2 183974,2188241 2190753,2192376 6,2199245,22010 38,2204611,2204	2143863,2149587,215101 1,2156184,2156478,2157 946,2168065,2168199,21 71189,2172180,2174942, 2177594,2178274,218410 2,2188594,2190928,2192 498,2194854,2197393,21 99424,2201151,2204768, 2204967,2207201,220790 2,2214476,2214949,2216 321,2221818,2222095,22 22670,2227800,2239389, 2239680,2240902,224196 0,2243980,		6485
(3C030605	chr8	•	2597655	2631033	2612570	2631033	52		2598920,2603374,260437 (5,2812601,2631033,	28NCP1	16734

FIG. 9B1

41/90'

AF333704	chr8	•	2946200	5002909	2949686	6002619	70 2946200,2950573 2945846,2950706,295748 QBGRM4 ,2957400,295833 8,2958445,2959377,2962 2,2959216,29623 370,2963870,2965809,29 25,2963890,296 69316,2970741,2971497, 797,2969242,297 2974056,2974848,288140 0567,2971333,29 1,2982726,2986902,3006 73878,2974671,2 286,3008233,3026752,30 37615,3008112 3098764,3105139,311474 3,3008059,302657 3,3116900,3116850,3118 437,3128689,316850,3118 437,3128689,3169776,31 63,3095188,3099 617,3104950,311 3189316,3196069,319711 4029,3115819,31 3198217,3207911,3209 247,3213722,3222793,32 27560,3156590, 3170240,318259,3 287,3213722,3222793,32 27565,322598,32 3761552,3356263,3367 442,3375349,3377472,33 95784,3404483,3407631, 34351395,335609 3,3367265,33761 33,3377355,3395 169,358498,366,3624800,37 238141,3292245, 16594,3762145,4006213, 33351395,335609 3,3367265,33761 33,3377355,3395 1659,3762032,40060
AY017307	chr8		2946200	5002804	2946686	5002519	05.4040007.4428 67 2946200,2950573 2946846,2950706,295748
AB067477	chr8	· %	3159348	3375351	3159490	3375361	21 3159346,3165998 3159615,3166068,317037 Q96PZ7 25556 ,3170260,316921 9,3169316,3169067,3197 1,3195670,31698 113,3192217,3207911,32 88,3198013,3207 09827,3213722,3222783, 815,3209713,321 3227544,3221699,32383 3605,3222569,32 3,3262446,3315923,3316 27356,3231830,3 805,3351562,3358263,33 236141,3292245, 67442,3375351, 3351395,335609 3,3367253,33751 33,
BC030702	chr8	+	6414658	6454689	6439652	6453657	9 8414658,8414703 8414685,8414791,841747 Q8NEMO 17402 ,6417380,842268 2,8422985,8439888,6444 6,8439600,64441 264,6447198,6450258,64 49,8447054,6450 54869, 168,6452494,

						42/90				
AK022909	chr8	+	6439652	6652387	6439652	6651151	,8447054,645018 8,8452494,64632	6439688,8444264,84471 8,6450258,8453649,6483 354,8485733,6488978,65 08031,6629793,8651398, 6852387,	.	30909
AF004327	chr8	•	6510773.	6708927	6511202	6571038	,6521779,652277	6511363,6517164,652194 6,6522880,6528096,6529 512,6535778,6540589,65 71345,66888922,6708927,		1689
AF218015	chr8	-	6510819	6571118	6511202	6529325	,8521779,652277	512,6535778,6540589,65	Q9HBP3	31507
AJ289780	chr8	-	6540527	6540683	6540527	6540565	1 6540527.	6540683.	Q9H4C1	29562
AJ289781	chr8		6570748	6571511	6570748	6571036	1 6570748.	6571511,	Q9H4C0	29561
AK057771	chr8	-	6623705	6625300	6624765	6625248	1 6823705.	6825300.	Q96LV3	24649
AL136587	chr8	+	6716768	6767767	6716770	6765490	8 6716768,6732971 ,6738812,674068 2,6749762,67557 71,6763152,6765 264,	6716989,6733041,673892 8,6740752,6749853,6765 930,6763276,6767767,	PLCE_H	9192
X92744	chr8	•	6888489	6895811	6888577	6895744	2 6888489,6895683	6888723,6895814,	BD01_HU MAN	2331
M98331	chr8	-	6942379	6943735	6942500	6943717	2 6942379,6943524	6942610,6943735,	DEF6_HU MAN	3743
	chrB	-	6953503	6955945	6953700	6954580	3 6953503,6954408 ,6955908,	6953822,6954592,695594 5,	DEF4_HU MAN	3742
	chrB	-	6995290		6995,411	6996276			DEFN_H UMAN	3748
NM_005217	chrB	-	6995294	6997727	6995411	6996276		6995521,6996288,699772 7.	DEFN_H	dna67

FIG. 9B3

43/90

#name	chrom	strend	bxStart	bxEnd	cdsStart	cdsEnd	exonCount	exonStarts	exonEnds	proteiniD	alignID
AK094299	chr8	•	12584056	12840371	12584805	12623646	4	12584056,12 584763,1262 3534,126389 02,	12585059,		15665
BC016533	chr8	+	12639326	12656738	12845491	12654745	3	12839326,12 645384,1265 3708,	12639344, 12645558, 12656738,	Q96AW6	21542
AB040889	chr8	+	12644964	12658866	12645329 (12654745	2	12644964,12 653708,	12645558, 12658866,	Q9P272	34672
AB051510 \	chr8	•	12716063	13147507	12718511	13132850		12716063,12 718990,1272 1187,127229 52,12724018 12725312,12 727459,1272 7786,127310 99,12732047, 12735490,12 434442,1274 8286,128379 69,13026253, 13034170,13 131749,1314 7302,	12719164, 12721405, 12723171, 12724133, 12725528, 12727658, 12727948, 12731276, 12733471, 12736554, 12743524, 12748358,	RHG7_HU MAN	37623
AK024773	chr8	-	12847258	13147468	12847326	13132772			12938003, 13026394,	Q9H7A2	30261
BC031245	chr8	+ .	13199595	13200984	13199892	13200652	1	13199595,	13200984,	Q96LL4	24566
AK058156	chr8	+	13200164	13200988	13200232	13200652	1	13200164,	13200988,	Q96LJ9	24551
AY028700	chr8	-	13722564	14187627	13723143	14187627			13735200 13740936, 13797403,	Q96LD1	24519
BC010370	chr8	*	15172923	15387187	15173131	15396919			15255950, 15283515, 15292348, 15294997, 15306537, 15363430,	396FW0	22983
U42349 ·	chr8		15172983	15396995	15173131	15390510	3 0 3 6	1	15255950, A 15283515, 15292348, 15294997, 15306537, 15363430,		6508

FIG. 9C1

44/90

D90187 chr8		15742159	15825340	15742785	15810989	10 15742158,15 753118,1577 6258,157829 31,15787765,15 801158,1680 7887,158105 86,15825298	, 15783012, 15787845, 15786952, 15801571,	6396
AF03735 <u>1</u> chr8	•	15742785	15810689	15742785	15810589	8 15742785,15 776258,1578 2931,157877 64,15798765, 15801158,16 807887,1581 0588,	15783012, 15787845, 15796952,	7691
AB044277 chr8	•	16659728	16669069	16659976	16668938	3 16659728,18 662558,1668 8650,	16660221, FGFK_HU 16662662, MAN 16669069,	4345
BC032868 chr8	•	16694192	16789537	16694182	16785679 · · ·	15 16694192,16 730987,1673 6591,187446 88,167746596, 16762139,18 753867,1675 7449,167653 61,167771294, 16772316,16 780996,1678 3346,167866 10,16787191,	16738623, 1674876, 16748844, 16762222, 16753939, 16757488, 16765457, 16771395, 16772488,	12338
BC039253 chr8	+	16823425	16889636	16823627	16864116	851692,1885 3234,168624 07,16864485, 16865284,18 872558,1897 4863,16877291, 16882140,16 884075,1688 7159,	16862528, 16864555, 16866317, 16872679, 16874996, 16876962,	39908
BC007315 chr8	-	16896131	16913744	16897623	16912056	899356,1690 1619,169041 15,16909895, 16911939,16 913578,	16901764. 16904277.	23830
L46722 chr8	•	16897449	16913669	16897623	16911987	899330,1690 1619,169041 15,16909895, 16911939,16 913592,	16904277,	3229

FIG. 9C2

٠ - ت - سو

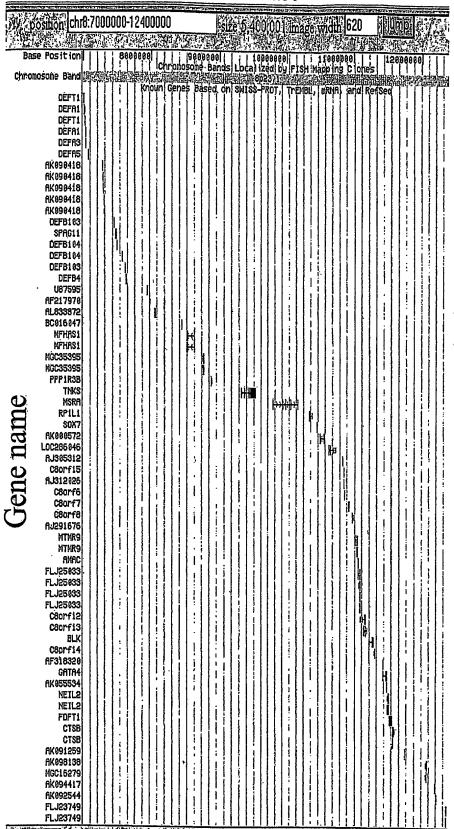
`AK057204 chr8	•	16913874	16982462	16914148	16953331	12 16913874,16 932810,1693 5161,169357 59,16941638, 16943300,16 946931,1694 7142,16951376, 16951376, 16953250,16 961890,	16935276, 16935860, 18941862, 16943371, 16947059, 16947201,	22334
AL834189 Chr8	٠ +	16913997	16984477	16914148	16941750 ,		16935276, 16935860, 16938987, 16941862, 16943371, 16947059,	13580
BC022383 chré	3 +	16941711	16962464	16943327	16953331	8 16941711,18 943300,1694 6931,169471 42,16947278, 16951376,16 953250,1696 1890,	16947059, 16947201, 16947347,	18587
AF073482 chri	3 -	16968557	17015961	16969009	17015981		16976230, 16978540, 16980305,	6429
U76368 c hri	3 +	17205708	17231969	17210251	17231953	12 17205708,17 210229,1721 1359,172155 89,17217211, 17218674,17 221770,172 5119,172271 52,17228768, 17230409,17 231756,	17211515, 17216765, 17217345, 17218897, 17221807, 17225222,	7280
D29990 chr	B +	17210251	17231953	17210251	17231953		, 17217345, 17218897, 17221524, 17225222,	3519
U76369 chr	8 +	17218848	17227280	17218848	17227260	4 17218848,17 221384,1722 5119,172271 52,		7281

FIG. 9C3

46/90

D37965	chr8		17244009	17309927	17244070	17309814	6 17244009,17 258260,1728 7863,172952 99,17300888, 17309425,	17288015	10168
AF121259	chr8		17310806	17364190	17312738	17384190	10 17310606,17 313794,1731 6658,173199 98,17320237, 17321373,17 322675,1734 1998,173511 40,17384069,	17316775, 17320094, 17320311, 17321479, 17322878,	19616
AB033114	chr8	-	17310816	17422546	17312738	17422546	14 17310816,17 313794,1731 6659,173199 98,17320237, 17321373,17 322675,1734 1998,173511 40,17380026, 17382579,17 390484,1741 0416,174205 29,	17316776, 17320094, 17320311, 17321479, 17322878, 17342065, 17351355, 17380066,	36001
AK024357	chr8	-	17310616	17351358	17312738	17322693	9 17310616,17 313794,1731 6658,173199 98,17320237, 17321373,17 322675,1734 1998,173511 40,	17316775, 17320094, 17320311, 17321479,	30425

FIG. 9C4



Position Build 33

FIG. 10

WO 2005/040427

48/90
Appendix 3: Output of correlation of 120 markers with orientation.

Appendix 3	: Output	of correla	ition of 120	markers wi
			squared	
,	•		草	
	•		ģ	j
			Ĕ	
~	7	d)	急	
i i	ē	Ĕ	<u>8</u>	<u>8</u>
larker	Marker	D-prime	Correlation	P-value
ž				
AC022239-5	INVSNP	0.310348	0.0235464	0.0105919
AC068974-2	INVSNP	0.717901	0.246708	9.88E-10
AF131215-1	INVSNP	0.669229	0.208883	2.91E-10
AF131215-2	INVSNP	0.826054	0.543927	4.99E-21
AF131215-4	INVSNP	0.71176	0.250012	1.52E-13
AF188029-1	INVSNP	0.276857	0.0154451	0.130948
AF188029-10	INVSNP	0.164122	0.0138136	0.0107372
AF188029-12	INVSNP	0,220334	0.0103093	0.238536
AF188029-7	INVSNP	0.236232	0.0350131	0.0207016
AF287957-1	INVSNP	0.0873719	0.00252711	0.677768
D8S1130	INVSNP	0.360552	0.0267458	0.00277162
D8S1469	INVSNP	0.292488	0.0453051	0.00238796
D8S1695	INVSNP	0.749707	0.308838	8.65E-19
D8S1721	INVSNP	0.387456	0.0361409	0.00124697
D8S1759	INVSNP	0.635416	0.0727243	8.14E-11
D8S1825	INVSNP	0.804892	0.245683	3.89E-21
D8S265	INVSNP	0.655468	0.118719	2.06E-13
D8S351	INVSNP	0.67781	0.0971108	2.35E-12
D8S503	INVSNP	0.47876	0.101609	4.21E-06
D8S516	INVSNP	0.470889	0.129417	6.12E-08
D8S520	INVSNP	0.350366	0.0304078	8.61E-05
D8S542	INVSNP	0.444143	0.0821856	1.23E-07
D8S550	INVSNP	0.487033	0.0303895	7.80E-08
DG00AAHBG	INVSNP	0.595792	0.336392	0.00458499
DG00AAHBH	INVSNP	0.565833	0.180968	9.35E-05
DG00AAHBI	INVSNP	0.504277	0.179788	1.08E-05
DG8S117	INVSNP	0,442753	0.0220656	0.203544
DG8S118	INVSNP	0.383535	0.00698894	0.426846
DG8S127	INVSNP	0.890818	0.488779	5.89E-14
DG8S128	INVSNP	0.456743	0.125524	0.000221348
DG8S130	INVSNP	0.536247	0.132253	1.39E-05
DG8S134	INVSNP	1	0.0635899	2.52E-08
DG8S136	INVSNP	0.343063	0.0516092	0.00690024
DG8S137	INVSNP	0.655751	0.119269	2.42E-05
DG8\$138	INVSNP	1	0.0584634	1.06E-07
DG8S147	INVSNP	0.566881	0.286732	6.58E-07
DG8S148	INVSNP	0.361632	0.0374806	2,22E-06
DG8\$153	INVSNP	0.782853	0.210606	1.11E-15
DG8S155	INVSNP	0.604283	0.115256	3.42E-05
DG8S156	INVSNP	0.653866	0.330724	2.82E-11
DG8S159	INVSNP	0.568915	0.0133872	6.52E-05
DG8S161	INVSNP	0.841182	0.349055	6.81E-13
DG8S163	INVSNP	0.906095	0.589869	2.03E-23
2000100	ILA A OLAL.	0.00000	2.22300	_,

FIG. 11A1

			49/90	
DG8S170	INVSNP	0.598019	0.302949	9.06E-11
DG8S177	INVSNP	0.320809	0.0215085	0.0422176
DG8S179	INVSNP	0.847218	0.471189	1.85E-13
DG8S181	INVSNP	0.714733	0.114141	2.32E-14
DG8S182	INVSNP	0.928892	0.197453	4.75E-08
DG8S188	INVSNP	0.136714	0.0106358	0.397153
DG8S192	INVSNP	0.217607	0.00997323	0.11848
DG8S197	INVSNP	0.764207	0.562667	2.34E-20
DG8S201	INVSNP	0.401621	0.0651737	0.000188696
DG8S212	INVSNP	1	0.036627	0.000368682
DG8S215	INVSNP	0.634833	0.146446	0.00116656
DG8S221	INVSNP	0.749998	0.165545	4.76E-17
DG8S232	INVSNP	0.347365	0.0307383	9.65E-11
DG8S238	INVSNP	1	0.0587153	7.29E-08
DG8S242	INVSNP	0.653286	0.403859	2.34E-10
DG8\$245	INVSNP	0.0176728	2.32E-05	0.964474
DG8S249	INVSNP	0.434415	0.0358435	0.000176876
DG8S250	INVSNP	0.292022	0.0130765	0.182875 2.27E-15
DG8S257	INVSNP	0.692608	0.369707 0.0637854	3.86E-06
DG8S258	· INVSNP	0.3934 0.757129	0.0637854	6.63E-12
DG8S261 DG8S262	INVSNP INVSNP	0.757129	0.0699983	0.00163984
DG8S265	INVSNP	0.377734	0.0643316	2.82E-06
DG8S266	INVSNP	0.558352	0.163973	1.11E-09
DG8S269	INVSNP	0.848498	0.61698	4.80E-24
DG8S271	INVSNP	0.475146	0.0674433	0.0049336
DG8S277	INVSNP	0.67332	0.138379	7.54E-08
DG8S285	INVSNP	0.182512	0.0225009	0.0857807
DG8S291	INVSNP	0.353319	0.078499	3.25E-08
DG8S292	INVSNP	0.502266	0.0559657	0.0189892
DG8S297	INVSNP	0.612404	0.142293	7.12E-09
DG8S298	INVSNP	1	0.122989	1.38E-14
DG8S301	INVSNP	0.159911	0.0113507	0.30016
DG8S302	INVSNP	0.507425	0.0728255	5.40E-11
DG8S303	INVSNP	0.516468	0.058	0.00460405
DG8S307	INVSNP	0.159702	0.0130769	0.238871
DG8S308	INVSNP	0.137742	0.00542977	0.0390388
DG8S316	INVSNP	0.694406	0.255881	3.36E-14
DG8S322	INVSNP	0.63348	0.188425	2.38E-13
DG8S323	INVSNP	0.406188	0.0403898	0.100275
DG8S324	INVSNP	0.650941	0.11013	1.90E-07
DG8S332	INVSNP	0.313896	0.0289007	0.0141458
DG8S333	INVSNP	0.770327	0.14615	4.97E-05
SG08S100	INVSNP	0.569098	0.132393 0.439721	5.34E-05 1.16E-15
SG08S102	INVSNP	0.853475	0.439721	0.097256
SG08S112	INVSNP	0.197699 0.737674	0.0283795	1.75E-17
SG08S120 SG08S138	INVSNP INVSNP	0.737674	0.36206	6.68E-12
SG08S138 SG08S15	INVSNP	0.783367	0.394925	1.39E-14
SG08S26	INVSNP	0.723403	0.432938	2.31E-14
SG08S27	INVSNP	0.76487	0.456719	2.37E-15
0000021	HAAOIAL	0,10701	0, 7001 10	

FIG. 11A2

			50/90	
SG08S32	INVSNP	0.690147	0.448406	2.61E-15
SG08S35	INVSNP	0.715979	0.189307	1.18E-07
SG08S39	INVSNP	0.647568	0.244516	1.18E-06
SG08S42	INVSNP	0.462881	0.0770168	0.00761203
SG08S46	INVSNP	0.217101	0.00836067	0.296584
SG08S5	INVSNP	0.857381	0.643837	3.21E-25
SG08S50	INVSNP	0.491729	0.109579	0.000666173
SG08S506	INVSNP	0.468844	0.152268	0.000162305
SG08S507	INVSNP	0.849207	. 0.288162	3.04E-11
SG08S508	INVSNP	0.82544	0.332851	8.52E-12
SG08S510	INVSNP	0.89446	0.140689	2.35E-05
SG08S511	INVSNP	0.490152	0.238296	9.66E-07
SG08S512	INVSNP	0.514179	0.259522	4.85E-08
SG08S517	INVSNP	0.854815	0.442687	2.34E-15
SG08S520	INVSNP	0.827061	0.336667	1.87E-11
SG08S6	INVSNP	0.708812	0.27657	3.63E-09
SG08S70	INVSNP	0.856961	0.442137	5.74E-16
SG08S71	INVSNP	0.861792	0.456188	9.88E-17
SG08S73	INVSNP	0.852942	0.437359	9.84E-15
SG08S76	INVSNP	0.935397	0.436358	6.37E-17
SG08S90 🐇	INVSNP	0.489091	0.155061	7.64E-06
SG08S93	INVSNP	0.227004	0.0196952	0.237642
SG08S94	INVSNP	0.910261	0.2108	1.39E-05
SG08S95	INVSNP	0.844958	0.641432	5.16E-20
SG08S96	INVSNP	0.585711	0.160415	4.65E-05
SG08S97	INVSNP	0.146921	0.00392928	0.618463

FIG. 11A3

51/90

Appendix	3: 0	utpu	ıt of allelic	freq	uencies a	ssociated	with the	orient	ation	•		
						hesk						
						Frequency under Null Hypothes				,		
		u	spa		된	=						
ĺ		ted	fect	So	nt.	ž	stic		-		2	
	يد	Hec	n Af	out	ទ្ធ	nde	Stati		ker		fer	
ł	S	of J	હું	οfC	ć .i.	n S	ě	ю	Mar		Mar	
<u>8</u>	Εį	ber	men .	ber	nen	uen	n by	mat	a of	2	e of	er 2
-value	Relative Risk	Number of Affecteds	Frequency in Affecteds	Number of Controls	Frequency in Controls	بقط	Chi-square Statistic	Information	Allele of Marker 1	Marker 1	Allefe of Marker	Marker 2
0.999994	1	0	0.350143	115	0.350143	0.350143	5.92E-11	1	4	AC022239-5	7	INVSNP
0,999994 0,999993	1	0	0.262901 0.186733	115 115	0.262901 0.186733	0.262901 0,186733	5.48E-11 8.20E-11	1	4 0	AC022239-5 AC022239-5	2	INVSNP INVSNP
0.999993	i	ŏ	0.08718	115	0.08718	0.08718	7.50E-11	i	ő	AC022239-5	2	INVSNP
0.099992	1	0	0.080516 0.006441	115 115	. 0.080518	0.080518	8.88E-11	1	8	AC022239-5	1	INVSNP
0.999993 0.999992	1	ŏ	0.000441	115	0.006441 0.021739	0.006441	8.59E-11 8.80E-11	1	8 -4	AC022239-5 AC022239-5	2	INVSNP INVSNP
0.999992	1	0	0.004348	115	0.004348	0.004348	8.90E-11	1	-12	AC022239-5	2	INVSNP
1 1	1	0	0.031192 0.057849	73 73	0.031192 0.057849	0.031192 0.057849	0 -1.14E-13	1	12 12	AC068974-2 AC068974-2	1 2	INVSNP INVSNP
1	1	0	0.083845	73	0.083645	0.083645	0	1	14	AC068974-2	1	INVSNP
1	1	0	0.162931 0.46354	73 73	0.162931 0.46354	0.162931 0.46354	-1.14E-13 0	1	14 0	AC068974-2 AC088974-2	2	INVSNP .
1	i	٥	0.009083	73	8806000	0.009063	-2.27E-13	1	0	AC068974-2	2	INVSNP
1	1	0	0.031432	73	0.031432	0.031432	-2.27E-13	1	16	AC068974-2	1	INVSNP
1	1	ő	0.057609 0.020548	73 73	0.057609 0.020548	0.057609 0.020548	-2.27E-13 -2.27E-13	1	16 6	AC068974-2 AC068974-2	2 2	INVSNP INVSNP
1	1	0	0.027041	73	0.027041	0.027041	1.14E-13	1	10	AC068974-2	1	INVSNP
1	1	0	0,007205 0.013699	73 73	0.007205 0.013699	0.007205 0.013699	0 -2.27E-13	1	10 20	AC068974-2 AC068974-2	2	INVSNP INVSNP
1	1	0	0.006988	73	886900.0	0.006986	-1.14E-13	1	8	AC068974-2	1	INVSNP
1 1	1	0	0.013562 0.006849	73 73	0.013562 0.006849	0.013562 0.006849	0 -2.27E-13	1 1	8 18	AC068974-2 AC068974-2	2	INVSNP INVSNP
1	i	ő	0.006849	73	0.006849	0.006849	-2.27E-13	1	13	AC068974-2 AC068974-2	1	INVSNP
0.999991	1	0	0.078213	111	0.078213	0.078213	1.19E-10	1	0	AF131215-1	1	INVSNP
0.999991 0.999991	1	0	0.047913 0.38885	111	0.047913 0.38885	0.047913 0.38885	1.19E-10 1.16E-10	1	0 2	AF131215-1 AF131215-1	2	INVSNP INVSNP
0.999991	1	0	0.025564	111	0.025584	0.025564	1.18E-10	1	2	AF131215-1	2	INVSNP
0.999991 0.999992	1	0	0.066388 0.226404	111	0.066388	0.066389	1.18E-10 1.11E-10	1	-2 -2	AF131215-1 AF131215-1	1 2	INVSNP INVSNP
0,999991	i	ő	0.014005	111	0.014005	0.014005	1.19E-10	i	22	AF131215-1	1	INVSNP
0.999991	1	0	0.004013	111	0.004013	0.004013	1.17E-10	1	22	AF131215-1	2	INVSNP
0.999992 0.999991	1	0	0.002636 0.006373	111	0.002636 0.006373	0.002636	1.04E-10 1.16E-10	1	-4 -4	AF131215-1 AF131215-1	1 2	INVSNP INVSNP
0.999991	1	0	0.028457	111	0.028457	0.028457	1.14E-10	1	8	AF131215-1	1	INVSNP
0.999991 0.999991	1	0	0.003074 0.063063	111 111	0.003074 0.063063	0.003074	1.15E-10 1.20E-10	1	8 4	AF131215-1 AF131215-1	2 1	INVSNP INVSNP
0.999991	1	0	0.013514	111	0.013514	0.013514	1.20E-10	i	-6	AF131215-1	2	INVSNP
0.999991 0.999991	1	0	0.007036 0.024496	111 111	0.007036 0.024496	0.007038 0.024496	1.16E-10 1.18E-10	1	10	AF131215-1	1 2	INVSNP
0.888881	1	ő	0.531611	116	0.531811	0.531611	1.10=10	1	·10 0	AF131215-1 AF131215-2	1	INVSNP INVSNP
1	1	0	0.024423	116	0.024423	0.024423	0	1	D	AF131215-2	2	INVSNP
1	1	0	0.076954 0.328219	116 116	0.076954 0.328219	0.076954 0.328219	-1.14E-19 0	1	4 4	AF131215-2 AF131215-2	1 2	INVSNP INVSNP
1	1	0	0.025056	116	0.025056	0.025056	Ō	1	8	AF131215-2	1	INVSNP
1 0,99998	1	0	0.013738 0.430154	116 114	0.013738 0.430154	0.013738 0.430154	-1.14E-13 4.89E-12	1	8	AF131215-2 AF131215-4	2	INVSNP INVSNP
0.999998	i	ŏ	0.0216	114	0.0216	0.0216	5.00E-12	i	ŏ	AF131215-4	2	INVSNP
8999998	1	0	0.164039	114	0.184039	0.164039	4.55E-12	1	14	AF131215-4	1	INVSNP
0,999998 1	1	Ö	0.257014 0.008176	114 114	0,25701 <i>4</i> 0,008176	0.257014 0.008176	4.55E-12 3.41E-13	1	14 12	AF131215-4 AF131215-4	2 1	INVSNP INVSNP
0.999998	1	0	0.086386	114	0,086386	0.066386	4.09E-12	1	12	AF131215-4	2	INVSNP
0.999998 0.99998	1	0	0.030702 0.007281	114 114	0.030702 0.007281	0.030702 0.007281	4.89E-12 5.00E-12	1	8 16	AF131215-4 AF131215-4	1	INVSNP INVSNP
0.999998	1	0	0.005877	114	0.005877	0.005877	4.89E-12	1	16	AF131215-4	2	INVSNP
0.999998 0.99998	1	0	0.004386	114	0.004386	0,004386	4.89E-12	1	18	AF131215-4	2	INVSNP
0.999962	1	0	0.00438 6 0.040595	114 114	0.004386 0.040595	0.004386 0.040595	4.89E-12 2.30E-09	1	10 -6	AF131215-4 AF188029-1	1	INVSNP INVSNP
0.999962	1	0	0.012037	114	0.012037	0.012037	2.29E-09	1	-8	AF188029-1	2	INVSNP
0.999962 0.999962	1	0	0.208582 0.072119	114 114	0.208582 0.072119	0.208582 0.072119	2.27E-09 2.28E-09	1	0	AF188029-1 AF188029-1	1 2	INVSNP INVSNP
0.999962	i	0	0.116762	114	0.116762	0.116762	2.30E-09	1	-8	AF188029-1	1	INVSNP
0.999962	1	0	0.106922	114	0,106922 0,127628	0.106922 0.127629	2.30E-09 2.29E-09	1	-8 -4	AF188029-1	2	INVSNP
0.999962 0.999962	1	Ö	0.127628 0.1138	114 114	0.127628	0.127629	2.29E-09 2.29E-09	1	4	AF188029-1 AF188029-1	1 2	INVSNP INVSNP
0.999962	1	0	0.026068	114	0.026068	0.026067	2.28E-09	1	2	AF188029-1	1	INVSNP
0.999962 0.999962	1	0	0.017792 0.017544	114 114	0.017792 0.017544	0.017793 0.017544	2.28E-09 2.30E-09	1	2 -12	AF188029-1 AF188029-1	2	INVSNP INVSNP
	•	-	~ · • · · • · · · · · ·			10 1		-			•	

					•							
						52/90						
		•	0.077007						_			
0.999962 0.999962	1	0	0.077087 0.015018	114 114		0.077087	2.29E-09 2.29E-09	1	-2 -2 .	AF188029-1	1	INVSNP INVSNP
0.999962	i	ŏ	0.026085	114	0.015018 0.026085	0.015019 0.026085	2.29E-09	1	-10	AF188029-1 AF188029-1	2 1	INVSNP
0.999962	i	ŏ	0.009003	114	0.020003	0.028083	2.30E-09	1	-10	AF188029-1	2	INVSNP
0.999962	1	Õ	0.013158	114	0.013158	0.003358	2.30E-09	i	4	AF188029-1	2	INVSNP
0.999945	1	0	0.262927	114	0.262927	0.262929	4.81E-09	1	Ó	AF188029-10	ī	INVSNP
0.999945	1	0	0.140582	114	0.140582	0.14058	4.82E-09	1	٥	AF188029-10	2	INVSNP
0.999945	1	0	0.28156	114	0.28156	0.281559	4.79E-09	1	2	AF188029-10	1	INVSNP
0.999945	1	0	0.108791	114	0.108791		4.82E-09	1	2	AF188029-10	2	INVSNP
0.999945	1	0	0.024981	114	0.024981	0.024981	4.82E-09	1	8	AF188029-10	1	INVSNP
0.999945	1	0	0.071511	114	0.071511	0.07151	4.84E-09	1	В	AF188029-10	2	INVSNP
0.999945	1	0	0.030975 0.01727	114 114	0.030975	0.030975	4.84E-09	1	4	AF188029-10	1	INVSNP INVSNP
0.999945 0.999945	1	Ö	0.035522	114	0.01727	0.017271 0.035521	4.82E-09 4.82E-09	1	-2	AF188029-10 AF188029-10	2	INVSNP
0.999945	i	ŏ	0.030022	114	0.033322	0.035521	4.82E-09	i	-2 -2	AF188029-10	2	INVSNP
0.999945	i	ŏ	0.004386	114	0.004386	0.004386	4.84E-09	1	ē	AF188029-10	1	INVSNP
0.999906	1	Ó	0.117898	115		0.117897	1,40E-08	1	ō	AF188029-12	1	INVSNP
0.999906	1	0	0.047319	115	0.047319	0.047321	1.40E-08	1	0	AF188029-12	2	INVSNP
0.999806	1	0	0.058949	115	0.058949	0.058949	1.40E-08	1	4	AF188029-12	1	INVSNP
0.999906	1	0	0.045399	115	0.045399	0.045399	1,40E-08	1	4	AF188029-12	2	INVSNP
0.999908	1	0	0.339813	115	0.339813	0.339813	1.40E-08	1	-12	AF188029-12	1	INVSNP
0.999906	1	0	0.225405	115	0.225405	0.225404	1.40E-08	1	-12	AF188029-12	2	INVSNP
0.999906	1	0	0.109427 0.029704	115 115	0.109427 0.029704	0.109428 0.029702	1.40E-08 1.40E-08	1	-4 -4	AF188029-12	1 2	INVSNP INVSNP
0.999906 0.999906	1	Ö	0.025704	115	0.029704	0.029702	1.40E-08	1	12	AF188029-12 AF188029-12	2	INVSNP
0.999908	i	ŏ	0.021739	115	0.004348	0.004340	1.40E-08		8	AF188029-12	1	INVSNP
0.999999	1	Õ	0.398707	115	0.398707	0.398707	5.68E-13	· i	ŏ	AF188029-7	i	INVSNP
1	1	0	0.149119	115	0.149119	0.149119	3.41E-13	1	Ŏ	AF188029-7 '	2	INVSNP
0.999999	1	0	0.230861	115	0.230861	0.230861	6.82E-13	1	-4	AF188029-7	1	INVSNP
0.999999	1	0	0.190878	115	0.190878	0.190878	5.68E-13	1	-4	AF188029-7	2	INVSNP
0.999999	1	0	0.005215	115	0.005215	0.005215	7.96E-13	1	2	AF188029-7	1	INVSNP
0.999999	1	0	0.007828	115	0.007828	0.007828	7.96E-13	1	2	AF188029-7	2	INVSNP
0.999999	1	0	0.004348	115 115	0.004348 0.004348	0.004348	7.96E-13 7.98E-13	1	-2 4	AF188029-7 AF188029-7	2	INVSNP INVSNP
0.999999	1	Ö	0.004346	115	0.004346	0.004346	7.96E-13	1	6	AF188029-7	2	INVSNP
0.999994	i	ŏ	0.315098	67	0.315096	0.315096	5.09E-11	i	Ö	AF287957-1	1	INVSNP
0.999992	1	ŏ	0.162516	67	0.162516	0.162516	1.00E-10	i	ŏ	AF287957-1	2	INVSNP
0.999994	1	0	0.246253	67	0.246253	0.246253	5.28E-11	1	-6	AF287957-1	1	INVSNP
0.999992	1	0	0.141807	67	0.141807	0.141806	1.02E-10	1	-6	AF287957-1	2	INVSNP
0.999992	1	0	0.007463	67	0.007463	0.007463	1.05E-10	1	4	AF287957-1	2	INVSNP
0.999992	1	0	0.048528	67	0.048528	0.048528	1.05E-10	1	-4	AF287957-1	1	INVSNP
0.999992	1	0	0.026098	67	0.026098	0.026098	1.04E-10	1	-4	AF287957-1	2	INVSNP
0.999992	1	0	0.009525	67	0.009525	0.009525	1.04E-10	1	2	AF287957-1	1	INVSNP
0.999992 0.999992	1	0	0.012863 0.007463	67 67	0.012863 0.007463	0.012863	1.04E-10 1.05E-10	1	2 -2	AF287957-1 AF287957-1	2	INVSNP INVSNP
0.999992	1	ŏ	0.007463	67	0.007463	0.007463	1.05E-10	1	-14	AF287957-1	1	INVSNP
0.999992	i	ŏ	0.014925	67	0.014925	0.014925	1.05E-10	1	-14	AF287957-1	2	INVSNP
0.999943	1	ō	0.006547	130	0.006547	0.006547	5.05E-09	1	-12	D8S1130	1	INVSNP
0.999943	1	0	0.047299	130	0.047299	0.047299	5.05E-09	1	-12	D8S1130	2	INVSNP
0.999943	1	0	0.19591	130	0.19591	0.195911	5.03E-09	1	4	D8S1130	1	INVSNP
0.999944	1	0	0.061782	130	0.061782	0.081782	5.01E-09	1	4	D8S1130	2	INVSNP
0.999943	1	0	0.124013	130	0.124013	0.124013	5.05E-09	1	0	D8S1130	1	INVSNP
0.999943	1	0	0.037526	130	0.037526	0.037526	5.05E-09	1	0	D8S1130	2	INVSNP INVSNP
0.999943 0.999943	1	0	0.064837 0.042855	130 130	0.064837 0.042855	0.064837 0.042855	5.05E-09 5.05E-09	1	8 8	D8S1130 D8S1130	1 2	INVSNP
0.999943	1	ŏ	0.092089	130	0.092089	0.042055	5.05E-09	1	-8	D8S1130	1	INVSNP
0.999943	i	õ	0.127834	130	0.127834	0.127834	5.05E-09	1	-8	D8S1130	ż	INVSNP
0.999943	1	Ō	0.109906	130		0.109906	5.05E-09	1	-4	D8S1130	1	INVSNP
0.999943	1	0	0.032402	130	0.032402	0.032402	5.05E-09	1	-4	D8S1130	2	INVSNP
0.999943	1	0	0.038462	130	0.038462	0.038462	5.05E-09	1	12	D8S1130	1	INVSNP
0,999943	1	0	0.011236	130	0.011236	0.011236	5.04E-09	1	16	D8S1130	1	INVSNP
0.999942	1	0	0.000303	130	0.000303		5.27E-09	1	16	D8S1130	2	INVSNP
0.999987	1	0	0.163471	128	0.163471	0.163471	2.77E-10	1	0	D8S1469	1	INVSNP
0.999987	1	0	0.113873 0.393429	128 128	0.113873 0.393429	0.113873 0.393429	2.77E-10	1	0	D8S1469 D8S1469	2	INVSNP INVSNP
0,999987 0,999987	1	ŏ	0.393429	128	0.353428		2.77E-10 2.73E-10	1	4	D8S1469	1 2	INVSNP
0.999987	i	ŏ	0.075879	128	0.075679		2.76E-10	i	8	D8S1469	1	INVSNP
0.999987	i	ŏ	0.068852	128	0.068852	0.068852	2,75E-10	i	8	D8S1469	2	INVSNP
0.999987	i	ŏ	0.003906	128	0,003806	0.003906	2.81E-10	i	12	D8S1469	2	INVSNP
0.999987	1	0	0.009673	128	0.009673		2.81E-10	1	3	D8S1469	1	INVSNP
0.999987	1	0	0.037202	128	0.037202	0.037202	2.81E-10	1	3	D8S1469	2	INVSNP
0,999987	1	0	0.006185	128	0.006185	0.006185	2.69E-10	1	-4	D8S1469	1	INVSNP
0.999987	1	0	0.017253	128	0.017253	0.017253	2.80E-10	1	-4	D8S1469	2	INVSNP
0.999927	1	0	0.487276	123	0.487276	0.487276	8.27E-09	1	0	D8S1695	1	INVSNP
0.999927 0.999927	1	0	0.028984 0.02341	123 123	0,028984 0,02341	0.028984	8.27E-09 8.26E-09	1	0 8	D8S1695 D8S1695	2	INVSNP INVSNP
0.999928	1	o	0,208297	123	0,02341	0.023411	8.25E-09	1	8	D8S1695	1 2	INVSNP
0.999927	i	ŏ	0.007843	123	0.007843		8.26E-09	i	6	D8S1695	1	INVSNP
0.999927	i	ŏ	0.045003.	123	0.045003	0.045004	8.26E-09	i	8	D8S1695	ż	INVSNP
0.999927	1	ō	0.008341	123	0.008341	0.008341	8.27E-09	1	10	D8S1695	1	INVSNP
0.999927	1	0	0.028245	123	0.028245	0.028245	8.27E-09	1	10	D8S1695	2	INVSNP
0.999927	1	0	0.09789	123	0.09789	0.09789	8.26E-09	1	4	D8S1695	1	INVSNP
0.999927	1	0	0.032191	123	0.032191	0.032191	8.27E-09	1	4	D8S1695	2	INVSNP
						1/3 4	400					

53	/9	n
"	,,	v

							_					
0.999927	1	0		3 123	0.00938	6 0.009386	8.26E-09	1	12	D8S1695		1 INVSNP
Q.999928	1	0		4 123	0.00687	4 0.006874			12			1 INVSNP 2 INVSNP
0.999927	1	. 0	0.01626	3 123	0.0162				2	D8S1696		INVSNP
0.999555	1	0	0.236048	3 94	0.23604				34			INVSNP
0.999555	1	0	0.029809	94	0.029909			i	34			INVSNP
0.999555	1	0	0.042553	3 94	0.04255			i	36		1	
0.999555	1	0	0.252583	3 94	0.25258;			i	õ	D8S1721		
0.999555	1	0	0.114438		0.114438			i	ŏ	D8S1721		
0.999555	1	0	0.08138		0.08138				2		2	
0.999555	1	ō	0.051599		0.051599			1		D8S1721	1	
0.999555	1	ō	0.014775		0.014778			1	2	D8S1721	2	
0.999555	1	ŏ	0.070331					1	4	D8S1721	1	
0.999555	i	Ö	0.015957		0.070331			1	4	D8S1721	2	NVSNP
		ŏ			0.015957			1	8	D8S1721	1	INVSNP
0.999555	1		0.006553			0.006553		1	24	D8S1721	1	INVSNP
0.999555	1	0	0.046638		0.046638			1	24	D851721	2	INVSNP
0.999555	1	0	0.015957		0.015957			1	32	D8S1721	1	INVSNP
0.999555	1	0	0.005319	-	0.005319	0.005319	3.12E-07	1	38	D8S1721	1	
0.999555	1	0	0.005319		0.005318	0.005319	3.12E-07	1	6	D8S1721	1	
0.999555	1	0	0.009724	94	0.009724	0.009721	3.12E-07	1	30	D8S1721	i	
0.999553	1	0	0.000914	94	0.000914	0,000917		1	30	D8S1721	2	
0.899999	1	0	0.320948	130	0.320948	0,320948		1	0	D8S1759	1	
0.999999	1	0	0.279052	130	0.279052			1	ō	D8S1769	2	
0.999999	1	0	0.070538	130	0.070538			i	2	D8S1769	1	
0.999999	1	0	0.006385		0.006385			- 1	2	D8S1759		
0.999999	1	0	0.019231		0.019231		5.68E-13	1	6		2	INVSNP
0.999999	1	0	0.080769		0.080769		5.68E-13	i	4	D8S1759	2	
0.899999	1	ō	0.134615		0.134615					D8S1759	1	INVSNP
1	1	ō	0.014158		0.014158			1	12	D8S1769	, 1	INVSNP
0.999999	i	ŏ	0.024304		0.024304		3.41E-13	1	10	D8S1759	' 1	INVSNP
0.999999	i	ő	0.021279				7.96E-13	1	10	D8S1759	2	INVSNP
0.999999	1	ő	0.005844		0.021279		6.82E-13	1	14	D8S1759	1	INVSNP
0.999999					0.005644		6.82E-13	1	14	D8S1759	2	INVSNP
	1	0	0.007692		0.007692		6.82E-13	1	16	D8S1759	1	INVSNP
0.999999	1	0	0.015385		0.015385	**********	6.82E-13	1	8	D8S1759	2	INVSNP
1	1	0	0.122402		0.122402		0	1	0	D8S1825	1	INVSNP
1	1	0	0.314573	119	0.314573		2.27E-13	1	0	D8S1825	2	INVSNP
1	1	0	0.078908	119	0.078908	0.078908	1.14E-13	1	8	D8S1825	1	INVSNP
1	1	0	0.009327	119	0.009327	0.009327	0	1	8	D8S1825	2	INVSNP
1	1	0	0.117647	119	0.117647	0.117647	0	1	10	D8S1825	1	INVSNP
1	1	0	0.205882	119	0.205882	0.205882	0	1	6	D8S1825	1	INVSNP
1	1	0	0.085346	119	0.085346	0.085348	1.14E-13	1	2	D851825	i	INVSNP
1	1	0	0.023898	119	0.023898	0.023898	-1.14E-13	1	. 2	D8S1825	ż	INVSNP
1	1	0	0.015866	119	0.015866	0.015866	0	i	4	D8S1825	1	
1	1	0	0.005143	119	0.005143		ŏ	i	4	D8S1825	2	INVSNP
1	1	0	0.016807	119	0.016807		ŏ	1	12	D8S1825	1	INVSNP
1	1	0	0.004202	119	0.004202		ŏ	i	14			INVSNP
1	1	Ö	0,107339	121	0.107339	0.107339	-2.27E-13	1		D8S1825	1	INVSNP
1	1	ō	0,235636	121	0.235636	0.235636		1	4	D8S265	1	INVSNP
i	1	ō	0.085168	121	0.085166	0.235536	0		4	D8S265	2	INVSNP
i	i	ō	0.087065	121	0.067065	0.067066	0	1	0	D8S265	1	INVSNP
i	i	ō	0.016529	121	0.007003		0	1	0	D8S265	2	INVSNP
i	1	ō	0.057851	121		0.016529	-4.55E-13	1	6	D8S265	2	INVSNP
i	i	ŏ	0.120883		0.057851	0.057851	-4.65E-13	1	-5	D8S265	1	INVSNP
i	1	ŏ	0.027878	121	0.120883	0.120883	-4.55E-13	1	2	D8S265	1	INVSNP
i	i	Ö		121	0.027878	0.027878	-4.55E-13	1	2	D8S265	2	INVSNP
		_	0.090909	121	0.090909	0.090909	-4.55E-13	1	18	D8S265	1	INVSNP
. 1	1	0	0.086777	121	0.088777	0.086777	-4.55E-13	1	12	D8S265	1	INVSNP
1	1	0	0.11157	121	0.11157	0.11157	-2.27E-13	1	14	D8S265	1	INVSNP
1	1	0	0.008264	121	0.008264	0.008264	-2.27E-13	1	16	D8S265	1	INVSNP
1	1	10	0.004132	121	0.004132	0.004132	-2.27E-13	1	1	D8S265	1	INVSNP
0.999885	1	0	0.020683	105	0.020683	0.020883	2.09E-08	1	0	D8S351	1	INVSNP
0.999885	1	0	0.079317	105	0.078317		2.09E-08	1	0	D8S351	2	INVSNP
0.999885	1	0	0.12177	105	0.12177	0.121769	2.09E-08	1	18	D8S351	1	INVSNP
0.999885	1	0	0.035373	105	0.035373	0.035374	2.09E-08	1	18	D8S351	ż	INVSNP
0.999885	1	0	0.017031	105	0.017031	0.017031	2.09E-08	1	2	D8S351	1	INVSNP
0.999885	1	0	. 0.187731	1.05	0.187731	0.187731	2.09E-08	1	2	D8S351	2	INVSNP
0.999885	1	0	0.177921	105	0.177921	0.177921	2.09E-08	1	6	D8S351	ī	INVSNP
0.999885	1	0	0.017317	105	0.017317		2.09E-08	i	6	D8S351	2	INVSNP
0.999885	1	0	0.028292	105	0.028292		2.09E-08	1	10	D8S351		
0.999885	1	0	0.005041	105	0.005041	0.00504	2.09E-08	1	10		1	INVSNP
0.999885	1	0	0.052381	105	0.052381		2,09E-08	i		D8S351 .	2	INVSNP
0.999885	1	ō	0.036414	105	0.036414	0.036414	2.09E-08		8	D8S351	1	INVSNP
0.999885	1	ō	0.020728	105	0.020728			1		D8S351	1	INVSNP
0.999885	i	ŏ	0.020720	105		0.020728	2.09E-08	1		D8S351	2	INVSNP
0.999885	i	ŏ	0.071425		0.071429	0.071429	2.09E-08	1		D8S351	1	INVSNP
0.999885	i	ŏ		105		0.067784	2.09E-08	1		D8S351	1	INVSNP
0.999885	1		0.008405	105		0.008406	2.09E-08	1		D8S351	2	INVSNP
		0	0.02058	105	0.02058	0.02058	2.09E-08	1		D8S351	1	INVSNP
0.999885	1	0	0.017515	105	0.017615			1		D8S351	2	INVSNP
0.999885	1	0	0.004762	105	0.004762			1	12	D8S351	1	INVSNP
0.999885	1	0	0.004762	105		0.004762		1	-2	D8S351	2	INVSNP
0.999885	1	0	0.004762	105		0.004762		1		D8S351	2	INVSNP
0.999996	1	0	0.126777	122		0.126777	2.98E-11	1		D88503	1	INVSNP
0.999996	1	0	0.20519	122	0.20519	0.20519	2.97E-11	1		D8S503	ż	INVSNP
0.999996	1	0	0.295435	122	0.295435	0.295435	2.67E-11	1		D8S503	ī	INVSNP
0.999997	1	0	0.032434	122	0.032434	0.032434		i		D8S503	2	INVSNP
					_	10 44					-	

							_					
						54/90)					•
0.999996		0	0.141876		0.141876			1	-2	D8S503		1 INVSNP
0.999997 0.999996		ő	0.058944 0.012912		0.058944 0.012912			1	-2			2 INVSNP
0.999996		ŏ	0.036269	122	0.036269			1	-4			1 INVSNP 2 INVSNP
0.999998	1	0	0.036885		0.036885			i	2			2 INVSNP 1 INVSNP
0.999996		0.		122	0.028547	0.028547		1	-8			1 INVSNP
0.999986	1	0	0.012437	122	0.012437			1	-8			2 INVSNP
0.999998 0.999998	1	0	0.009208 0.003088	122 122	0.009208 0.003088			1	4	D8S503		1 INVSNP
0.999933	i	ō	0.49559	130	0.49559			1	4 2	D8S503 D8S516		2 INVSNP
0.999933	1	0	0.13518	130	0.13518			1	2	D8S516		1 INVSNP 2 INVSNP
0.999933	1	0	0.062919	130	0.082919		7.14E-09	1	4	D8S518		INVSNP
0.999933	1	0	0.180158	130	0.160158			1	4	D8S516	2	2 INVSNP
0.999933	1	Ö	0.061539 0.027153	130 130	0.061539 0.027153			1	0	D8\$516		INVSNP
0.999933	i	ō	0.030539	130	0.030539			1	-2 -2		1	
0.999933	1	0	0.0028	130	0.0028			1	-2 -4		1	
0.999933	1	0	0.004892	130	0.004892	0.004893	7.14E-09	1	-4	D8S516	2	
0.989933	1	0	0.011539	130	0.011539			1	6	D8S516	2	
0.999853	1	Ö	0.007892	130 114	0.007692 0.227223			1	8	D8S516	2	
0.999853	i	ŏ	0.110498	114	0.110498			1	6 6	D8S520	. 1	
0.999853	1	0	0.198127	114	0.198127			1	8	D8S520 D8S520	1	
0.999853	1	0	0.038715	114	0.038715			1	8	D8S520	2	
0.999853	1	0	0.010855	114	0.010655		3.38E-08	1	10	D8S520	1	
0.999853 0.999853	1	0	0.006889 0.06697	114	0.006889		3.38E-08	1	10	D8S520 .	2	
0.999853	i	Ö	D.025135	114 114	0.06697 0.025135			1	0	D8S520	. 1	
0.999853	1	ō	0.02375	114	0.02375		3.38E-08 3.38E-08	1	0 -10	D8S520 D8S520	2	
0.999853	1	0	0.04204	114	0.04204	0.042039	3.38E-08	i	-10		1 2	
0.999853	1	0	0.098408	114	0.098406	0.098405	3.38E-08	i	4	D8S520	1	
0.999853	1	0	0.024401	114	0.024401	0.024402	3.38E-08	1	4	D8S520	2	
0.999853 0.999853	1	0	0.008772 0.014155	114 114	0.008772	0.008772	3.38E-08	1	-12		2	
-0.999853	1	ŏ	0.091109	114	0.014155 0.091109	0.014154 0.091109	3.38E-08 3.38E-08	1	2	D8S520	1	
0.999853	1	D	0.005451	114	0.005451	0.005451	3.38E-08	1	2 -2	D8S520 D8S520	2 1	INVSNP INVSNP
0.999853	1	0	0.003321	114	0.003321	0.003321	3.38E-08	1	2	D8S520	2	
0.999853	1	0	0.004386	114 -	0.004386	0.004386	3.38E-08	1	12	D8S520	1	INVSNP
0.999994 0.989993	1	0	0.310811	128	0.310611		5.41E-11	1	0	D8S542	1	INVSNP
0.999993	1	ő	0.212826 0.293986	128 128	0.212826	0.212826 0.293986	7.05E-11	1	0	D8S542	2	INVSNP
0.999993	1	ō	0.018514	128	0.253566		6.79E-11 7.05E-11	1	2 2	D8S542 D8S542	1 2	INVSNP
0.999993	1	0	0.043841	128	0.043841	0.04384	7.17E-11	i	4	D8S542	1	INVSNP INVSNP
0.999994	1	0	0.120222	128	0.120222	0.120222	6.15E-11	i .	4	D8S542	2	INVSNP
0.999997	1	. 0	0.096639	119	0.096639	0.096639	1.09E-11	1	-8	D8S550	1	INVSNP
0.999998 0.999997	1	0	0.016099 0.08054	119	0.016099	0.016099	9.55E-12	1	12	D8S550	1	INVSNP
0.899997	i	Ö	0.210239	119 119	0.08054 0.210239	0.08054 0.210239	1.07E-11	1	12	D8S550	2	INVSNP
0.999997	1	ō	0.092282	119	0.092282	0:092282	1.11E-11 1.09E-11	1	14 14	D8S550 D8S550	1 2	INVSNP
0.899997	1	0	0.096539	119	0.096639	0.096639	1.09E-11	i	-2	D8S550	1	INVSNP INVSNP
0.999997	1	0	0.012605	119	0.012605	0.012605	1.09E-11	1	8	D8S550	2	INVSNP
0.999998	1	0	0.019843 0.026575	119 119	0.019643		9.55E-12	1	18	D8S550	1	INVSNP
0.999997	i	ŏ	0.020373	119	0.026575 0.071429	0.026575	9.55E-12 1.09E-11	1	18	D8S550	2	INVSNP
0.999997	1	Ó	0.056397	119	0.056397	0.056397	1.11E-11	1	-6 16	D8S550 D8S550	1	INVSNP INVSNP
0.999997	1	0	0.031838	119	0.031838	0.031838	1.00E-11	i	16	D8S550	2	INVSNP
0.999998	1	0	0.03105	119	0.03105	0.03105	7.50E-12	1	0	D8S550	1	INVSNP
0.999998 0.999998	1	0	0.027773 0.044723	119 119	0.027773 0.044723		6.59E-12	1	0	D8S550	2	INVSNP
0.999998	i	ŏ	0.051918	119	0.051916		8.19E-12 7.96E-12	1	10 10	D8S550	1	INVSNP
0.999997	1	0	0.004202	119	0.004202		1.09E-11	1	2	D8S550 D8S550	2	INVSNP INVSNP
0,999997	1	0	0.021008	119	0.021008	0.021008	1.09E-11	i	20	D8S550	2	INVSNP
0.999997	1	0	0.004202	119	0.004202		1.09E-11	1	22	D8S550	2	INVSNP
0.999997 0.999994	1	0	0.004202 0.509649	119		0.004202	1.09E-11	1	4	D8S550	1	INVSNP
0.999995	i	Ö	0.099047	23 23		0.509649 0.099047	5.65E-11	1	1	DG00AAHBG	1	INVSNP
0.999995	1	ō	0.099047	23		0.099047	3.39E-11 3.39E-11	1	1 2	DG00AAHBG DG00AAHBG	2	INVSNP
0.999994	1	0	0.292258	23		0.292258	5.36E-11	i	2	DG00AAHBG	1 2	INVSNP INVSNP
0.999999	1	0	0.547767	107		0.647787	2.96E-12	1	2	DG00AAHBH	1	INVSNP
0.999999	1	0	0.199897	107		0.199897	2.56E-12	1	2	DG00AAHBH	2	INVSNP
0.999999 0.999999	1	0	0.084383 0.187954	107 107		0.084383	1.08E-12	1	1	DG00AAHBH	1	INVSNP
0.99998	1	Ö	0.529477	107		0.187954 0.529477	2.61E-12 6.08E-10	1	1	DG00AAHBH	2	INVSNP
0.99998	1	ō	0.17613	107		0.525477	6.16E-10	1	3 3	DG00AAHBI DG00AAHBI	1 2	INVSNP
0.99998	1	0	0.087345	107		0.087346	6.20E-10	1	1	DG00AAHBI	1	INVSNP INVSNP
0.99998	1	0	0.207047	107	0.207047	0.207047	8.14E-10	1	1	DGOOAAHBI	2	INVSNP
0.999947 0.999947	1	0	0.140205	94		0.140204	4.48E-09	1	0	DG8S117	1	INVSNP
0.999947	1	0	0.030007 0.535327	94 94		0.030009 0.535328	4.48E-09	1	0	DG8S117	2	INVSNP
0.999947	i	ŏ	0.294461	94	0.294461	0.29446	4.41E-09 4.47E-09	1	9 9	DG8S117	1	INVSNP
0.999905	1	Ō		128		0.590827	1.41E-08	1	0	DG8S117 DG8S118	2	INVSNP INVSNP
0.999905	1	0	0.331049	128	0.331049		1.41E-08	i	ŏ	DG8S118	2	INVSNP
					F	IG. 11	1R4				-	
					• 1		, – T					
		•										

						55/9	90					
0.999905				8 128	0.08151	8 0.06151	7 1.42E-08	1	5	DG8S118		1 INVSNP
0.999905								i	5			1 INVSNP 2 INVSNP
0.999853					0.46437		4 3.39E-08	1	ō			INVSNP
0.999853 0.999853		-			0.02070			1	0			2 INVSNP
0.999853					0.100758 0.00372			1	6			INVSNP
0.999853					0.061738			1	8	DG8\$127		INVSNP
0.999853	3 1	0			0.348712			1	1	DG8S127 DG8S127		INVSNP
0.999999		_		92	0.590324			1	ó	DG8S127	2	
0.999999					0.170546			1	ŏ	DG8S128	ź	
0.999999					0.094459			1	4	DG8S128	1	
0.999999					0.144672			1	4	DG8S128	2	
0.999995								1	4	DG8\$130	1	
0.999995								1	4	DG8S130	2	
0.999995								1	0	DG8S130	1	
0.999995		-	,	105				i	-18	DG8S130 DG8S130	2	
0.999995		_						1	-4		1	
0.999995		0	0.009524					1	-4	DG8S130	ż	
0.999895		0	0.023412					1	8	DG8\$130	. 1	
0,999995	1	٥	0.014683 0.545082					1	8	DG8S130	2	INVSNP
i	í	Ö	0.352459					1	0	DG8S134	1	
i	1	ŏ	0.102459		0.352459			1	0	DG8S134	2	
0.99972		ō	0.456736		0.456738			1	4	DG8S134 DG8S138	1	INVSNP
0.99972	1	0	0.187495		0.187495			1	0	DG8S138	1 2	INVSNP
0.99972		0	0.013739		0.013739			i	-6	DG8S136	. 1	INVSNP INVSNP
0.99972	1	0	0.083184		0.063184			1	-6	DG8S136	, έ	INVSNP
0.98972	1	0	0.041344		0.041344			1	2	DG8S136	1	INVSNP
0.99972 0.999719	1	0	0.025964		0.025964			1	2	DG8S136	2	INVSNP
0.999718	1	0	0.039577 0.008499	104	0.039577			1	-4	DG8\$136	1	INVSNP
0.99972	i	Ö	0.008488		0.008499 0.018587			1	-4	DG8S136	2	INVSNP
0.99972	1	ő	0.024683	104 104	0.016567		1.24E-07	1	4	DG8S136	1	INVSNP
0.99972	1	ō	0.01333	104	0.01333	0.024883	1.24E-07 1.24E-07	1	4 6	DG8S136	2	INVSNP
0.99972	1	0	0.029939	104	0.029939	0.029939	1.24E-07	1	6	DG8S136 DG8S136	1 2	INVSNP
0.999719	1	0	0.023742	104	0.023742		1.24E-07	i	-2	DG8S136	1	INVSNP INVSNP
0.999721	1	0	0.000297	104	0.000297	0.000297	1.22E-07	1	-2	DG8S136	2	INVSNP
0.99972	1	0	0.008331	104	0.008331	0.008331	1.24E-07	1	8	DG8S136	1	INVSNP
0.99972 0.99972	1	0	0.039746	104	0.039746	0.039746	1.24E-07	1	8	DG8S138	2	INVSNP
0.999972	1	Ö	0.004808 0.193763	104	0.004808	0.004808	1.24E-07	1	-14	DG8S136	2	INVSNP
0.999972	i	ŏ	0.193703	38 38	0.193763 0.043079	0.193763	1.21E-09	1	-2	DG8S137	1	INVSNP
0.999972	1	ō	0.031265	38	0.043075	0.043079 0.031265	1.23E-09 1.23E-09	1	-2	DG8S137	2	INVSNP
0.999972	1	0	0.008209	38	0.008209	0.001203	1.22E-09	1 1	2 2	DG8S137 DG8S137	1	INVSNP
0.999972	1	0	0.042557	38	0.042557	0.042557	1.24E-09	i	4	DG8S137	2	INVSNP
0.999972	1	0	0.062708	38	0.062706	0.062708	1.24E-09	1	4	DG8\$137	2	INVSNP
0.999972	1	0	0.015798	38	0.015798	0.015798	1.25E-09	1	8	DG8S137	1	INVSNP
0.999972 0.999972	1	0	0.194728	38	0.194728	0.194728	1.25E-09	1	6	DG8S137	2	INVSNP
0.999973	1	0	0.052632 0.269248	38 38	0.052632	0.052632	1.25E-09	1	-4	DG8S137	1	INVSNP
0.999972	1	ŏ	0.208248	38	0.269248	0.269248 0.046542	1.18E-09	1	0	DG8S137	1	INVSNP
0.999972	1	ō	0.039474	38	0.039474	0.040342	1.23E-09 1.25E-09	1	0 12	DG8S137	2	INVSNP
1	1	0	0.097345	113	0.097345	0.097345	0	1	-1	DG8S137 DG8S138	2 1	INVSNP
1	1	0	0.566372	113	0.566372	0.586372	ŏ	i	0	DG8S138	1	INVSNP INVSNP
1	1	0	0.336283	113	0.338283	0.336283	0	1	0	DG8S138	ż	INVSNP
0.999995 0.999994	1	0	0.131246	84	0.131246	0.131246	4.39E-11	1	0	DG8S147	1	INVSNP
0.999994	1	0	0.231849 0.553278	84	0.231849	0.231849	5.45E-11	1	0	DG8S147	2	INVSNP
0.999993	i	ŏ	0.083627	84 84	0.553278 0.083627	0.553278 0.083627	6.01E-11	1	2	DG8S147	1	INVSNP
0.999998	1	ō	0.075	120	0.005027	0.003627	6.68E-11 4.89E-12	1	2 -4	DG8S147	2	INVSNP
0.999998	1	0	0.17032	120	0.17032	0.17032	4.66E-12	ì	2	DG8S148	1	INVSNP
0,999998	1	0	0.07968	120	0.07968	0.07988	4.43E-12	i	2	DG8S148 DG8S148	1 2	INVSNP INVSNP
0.999999	1	0	0.179826	120	0.179826	0.179826	3.52E-12	i .	-2	DG8S148	1	INVSNP
0.999999	1	0	0.03684	120	0.03684	0.03684	4.55E-13	1	-2	DG85148	2	INVSNP
0.999998 0.999998	1	0	0.21652	120	0.21652	0.21652	4.55E-12	1	Ο.	DG8\$148	1	INVSNP
0.999998	1	0	0.204313	120	0.204313		4.32E-12	1	0	DG8S148	2	INVSNP
1	i	Ö	0.0375 0.108162	120 114	0.0375 0.106162	0.0375	4.89E-12	1	4	DG8S148	2	INVSNP
i	i	ō	0.306118	114			2.27E-13	1	-2	DG8S153	1	INVSNP
1.	1	ō	0.123439	114		0.123439	-2.27E-13 2.27E-13	1 .	-2 0	DG8S153	2	INVSNP
1	1	0	0.012528	114		0.012528	0	1	Ö	DG8S153 DG8S153	1	INVSNP
1	1	0	0.013158	114		0.013158	3.41E-13	i	-B	DG8S153	2 2	INVSNP INVSNP
1	1	0	0.030702	114		0.030702	3.41E-13	i	2	DG8S153	1	INVSNP
1	1	0	0.129896	114		0.129896		1	6	DG8\$153	í	INVSNP
· 1	1	0	0.006068	114		880800.0		1	6	DG8S153	2	INVSNP
1	1	0	0.026316 0.132549	114		0.026316		1		DG8S153	1	INVSNP
i	i	0	0.132549	114 114		0.132549		1		DG8S153	1	INVSNP
i	i	ŏ	0.056199	114		0,016573 0.056199		1		DG8S153	2	INVSNP
İ	1	ō	0.005205	114	0.005205			1 1		DG8S153 DG8S153	1	INVSNP
			_			10 4 A		•			2	INVSNP

											•	
1	1	٥	0.02193	114	0.0219	3 0.0219	3 3.41E-13	1	4	DG8S153		1 INVSNP
1	1	0	0.008772	114	0.008772			i	12			
1	1	0	0.004386		0,004386			i				1 INVSNP
0.999903	1	0	0.335315		0.33531				-4			1 INVSNP
0.999903	Ì	ō						1	4			1 INVSNP
0.999903	i	ő			0.0493			1	4	DG8S155		2 INVSNP
			0.019748	52	0.019748			1	8	DG8S155		1 INVSNP
0.999903	1	0	0.037944	52	0.037844			1	8	DG8S165	- 2	2 INVSNP
0.999903	1	0	0.042665		0.042668	0.042666	3 1.49E-08	1	2	DG8S155		INVSNP
p.999903	1	0	0.034258	52	0.034258	3 0.034258	3 1.49E-08	1	2	DG8S155		
0.999903	1	0	0.02594	52	0.02594	0.02594		1	6	DG8S155	1	
0.999903	- 1	0	0.166368	52	0.166368			1	6	DG8S155	ž	
0.999903	1	0	0.028846	52	0.028846			i				
0.999903		ō	0.076923	52	0.076923				14		1	
0.999903	1	ō	0.093754	52	0.093754			1	0	DG8S155	1	
0.999903	1	ŏ	0.021631					1	10		1	i invsnp
0.999903				52	0.021631			1	10		. 2	2 INVSNP
	1	0	0.040271	52	0.040271			1	12	DG8S155	`1	INVSNP
0.999903	1	0	0.017422	52	0.017422		1.49E-08	1	. 12	DG8S155	2	! INVSNP
0.999903	1	0	0.009615	52	0.009615	0.009615	1.49E-08	1	-10	DG8S155	2	
1	1	0	0.12722	115	0.12722	0.12722	. 0	1	6	DG8S156	1	
1	1	0	0.255389	115	0.255389			1	8	DG8S156	2	
1	1	0	0.529302	115	0.529302			i	ŏ			
1	1	0	0.062002	115	0.062002					DG8S156	1	
1	1	ō	0.017391	115	0.017391			1	0	DG8S156	2	
i	- i	ŏ						1	-6	DG8S156	2	
			0.008696	115	0.008696			1	9	DG8S156	2	INVSNP
1	1	0	0.602151	93	0.602151		_	1	0	DG8S159	1	INVSNP
1	1	0	0.327957	93	0.327957		-5.68E-14	1	0	DG8S159	2	INVSNP
1	1	0	0.05914	93	0.05914	0.05914	. 0	1	-2	DG8S159	, 1	
. 1	1	0	0.010753	93	0.010753	0.010753	. 0	1	2	DG8S159	. 2	
0.999992	1	0	0.440344	121	0.440344	0.440344		1	ō	DG8S161	. 1	
0.999991	1	0	0.026598	121	0,026598			1	ŏ	DG8S161		
0.999991	1	0	0.200152	121	0.200152						2	
0.999992	1	ŏ	0.332906	121	0.332906			1	2	DG8S161	1	
1	1	ŏ	0.101264		0.101264	-,		1	2	DG8S161	2	
		-		126			5.68E-14	1	0	DG8S163	1	INVSNP
1	1	0	0.323339	126	0.323339		1.14E-13	1	0	DG8S163	2	INVSNP
1	1	0	0.557466	126	0.557488		5.68E-14	1	3	DG8S163	-1	INVSNP
1	1	0	0.017931	126	0.017931	0.017931	1.14E-13	1	3	DG8S163	2	INVSNP
1	1	0	0.088646	114	0.088646	0.088646	-1.14E-13	1	0	DG8S170	1	INVSNP
1	1	0	0.222757	114	0.222757	0.222757	-1.14E-13	1	ŏ	DG8S170	2	INVSNP
1	1	0	0.569248	114	0.569248		1.14E-13	1	2	DG8S170		
1	1	0	0.10619	114	0.10619	0.10619	0	i	2		1	INVSNP
1	1	ō	0.013158	114	0.013158	0.013158				DG8S170	2	INVSNP
0.999998	1	ō	0.298785	87			0	1	-4	DG8S170	2	INVSNP
0.999998	i	Ö	0.172479		0.298785		5.57E-12	1	14	DG8S177	1	INVSNP
	1			87	0.172479		5.34E-12	1	14	DG8S177	2	INVSNP
0.999999		0	0.197931	87	0.197931		3.41E-12	1	12	DG8S177	1	INVSNP
0.999999	1	0	0.037702	87	0.037702	0.037702	1.36E-12	1	12	DG8S177	2	INVSNP
0.999998	1	0	0.01485	87	0.01485	0.01485	4.21E-12	1	18	DG8S177	1	INVSNP
0.999998	1	0	0.042622	87	0.042622	0.042622	5.00E-12	1	18	DG8S177	2	INVSNP
0.999998	1	0	0.078902	87	0.078902	0.078902	4.66E-12	i	Ö	DG8\$177	ī	INVSNP
0.999998	1	0	0.013052	87	0.013052		4.09E-12	i	ő	DG8S177		
0.999998	1	Ó	0.047463	87	0.047463				_		2	INVSNP
0.999998	1	ŏ	0.067479	87			5.57E-12	1	16	DG8S177	1	INVSNP
0.999998	i	ŏ	0.028736		0.067479		5.57E-12	1	16	DG8S177	2	INVSNP
	i			87	0.028736		5.68E-12	1	10	DG8S177	1	INVSNP
1		0	0.545727	91	0.545727	0.545727	0	1	0	DG8S179	1	INVSNP
1	1	0	0.025702	91		0.025702	0	1	0	DG8S179	2	INVSNP
1	1	0	0.141086	91	0.141086	0.141086	0	1	7	DG8S179	1	INVSNP
1	1	0	0.287485	91	0.287485	0.287485	0	1	7	DG8S179	2	INVSNP
1	1	.0	0.099143	83	0.099143	0.099143	-5.68E-13	1	10	DG8S181	1	INVSNP
1	1	0	0.159893	83	0.159893	0.159893	-1.14E-13	1	10	DG8S181	2	INVSNP
1	1	0	0.249128	83	0.249128		-4.55E-13	1	12	DG8S181		INVSNP
1	1	0	0.015933	83	0.015933	0.015033	-4.55E-13	•	. –		1	
i	1	ō	0.044465	83	0.044465			1	12	DG8S181	2	INVSNP
i	i	ă	0.057945		0.057945	0.044485	-3.41E-13	1	4	DG8S181	1	INVSNP
;	1			83			-1.14E-13	1	4	DG8S181	2	INVSNP
		0	0.084337	83	0.084337	0.084337	-3.41E-13	1	0	DG8S181	2	INVSNP
1	1	0	0.204819	83	0.204819	0.204819	-3.41E-13	1	8	DG8S181	1	INVSNP
1	1	0	0.022928	83	0.022928	0.022928	-1.14E-13	1	16	DG8S181	1	INVSNP
1	1	0	0.007193	83	0.007193	0.007193	-2.27E-13	1	16	DG8S181	2	INVSNP
1	1	0	0.012048	83		0.012048	-3.41E-13	1	18	DG8S181	2	INVSNP
1	1	0	0.042169	83		0.042169	-3.41E-13	1	14			
0.999993	1	Õ	0.648218	127		0.648218				DG8S181	1	INVSNP
0.999993	1	ŏ	0.241546	127			8.49E-11	1	0	DG8S182	1	INVSNP
0.899993	1	Ö			0.241546		8.43E-11	1	0	DG8S182	2	INVSNP
			0.005328	127		0.005328	8.74E-11	1	-3	DG8S182	1	INVSNP
0.999993	1	0	0.10491	127	0.10491	0.10491	8.12E-11	1	-3	DG8S182	2	INVSNP
0.999997	1	0	0.482658	63		0.482658	1.05E-11	1	٥	DG8S188	1	INVSNP
0.999998	1	0	0.27131	63	0.27131	0.27131	9.55E-12	1	0	DG8S188	2	INVSNP
0.999998	1	0	0.128453	63		0.128453	6.54E-12	i	-1	DG8S188	1	
0.999998	1	0	0.117579	63		0.117579	6.08E-12	i	-1			INVSNP
0.999385	1	ō	0.353003	95	0.353003	0.35301	5.93E-07		0	DG8S188	2	INVSNP
0.999386	i	ŏ	0.173313	95				1		DG8S192	1	INVSNP
0.999386	i	ă		95		0.173306	6.93E-07	1	0	DG8S192	2	INVSNP
0.999386			0.102711		0.102711	0.10271	5.92E-07	1	2	DG8S192	1	INVSNP
	1	0	0.092026	95		0.092027	5.92E-07	1	2	DG8S192	2	INVSNP
0.989386	1	0	0.005749	95	0.005749	0.00575	5.92E-07	1	16	DG8S192	1	INVSNP
0.999386	1	0	0.01004	95	0.01004	0.01004	6.92E-07	1	16	DG8S192	ż	INVSNP
						10 4					_	

						0 11,50					-	
0.999386	1	0	0.093843	95	0.093843	0.09384	5.92E-07	1	-2	DG8S192	1	INVSNP
0.999386	i	ō	0.016884	95	0.093643	0.09364	5.92E-07	1	-2	DG8S192	2	INVSNP
0.999386	i	Ö							4			
		0	0.088837	95	0.068837	0.068829	5.91E-07	1	-	DG8S192	1	INVSNP
0.999386	1		0.004847	95	0.004847	0.004858	5.92E-07	1	4	DG8S192	2	INVSNP
0.999386	1	0.	0.054804	95	0.054804	0.05481	5.91E-07	1	12	DG8S192	1	INVSNP
0.999386	1	0	0.013617	95	0.013617	0.013612	5.93E-07	1	12	DG8S192	2	INVSNP
0.999386	1	٥	0.010528	95	0.010526	0.010526	5.92E-07	1	10	DG8S192	2	INVSNP
1	1	0	0.57531	120	0.57531	0.57531	-5.68E-14	1	0	DG8S197	1	INVSNP
1	1	0	0.053857	120	0.053857	0.053857	0	1	0	DG8\$197	2	INVSNP
1	1	0	0.06219	120	0.06219	0.06219	-5.68E-14	1	1	DG8S197	1	INVSNP
1	1	O	0.308643	120	0.308643	0.308643	-5.68E-14	1	1	DG8S197	2	INVSNP
1	1	0	0.391583	100	0.391583	0.391583	-1.14E-13	1	0	DG8S201	1	INVSNP
1	1	. 0	0,123417	100	0.123417	0.123417	-1.14E-13	1	٥	DG8S201	2	INVSNP
1	1	0	0.123408	100	0.123408	0.123408	-1.14E-13	1	4	DG8S201	1	INVSNP
1	1	Ō	0.161592	100	0.161592	0.161592	-1.14E-13	1	4	DG85201	2	INVSNP
i i	1	ō	0.165009	100	0.185009	0,165009	-1.14E-13	1	-2	DG8S201	1	INVSNP
i i	i	ō	0.009991	100	0.009991	0.009891	0	1	-2	DG8S201	ż	INVSNP
;	1	ő	0.025	100	0.025	0.0000	-1.14E-13	i	2	DG8S201.	2	INVSNP
4	1	ŏ	0.644	125	0.644	0.644	0	1	ō	DG8S212	1.	INVSNP
;	i	Ö	0.336	125	0.338	0.338	0	i	ŏ	DG85212	2	INVSNP
1												INVSNP
1	1	0	0.02	125	0.02	0,02	0	1	2	DG8S212	2	
0.999964	1	0	0.283213	86	0.283213	0.283214	2.05E-09	1	4	DG8S215	1	INVSNP
0.999964	1	0	0.33888	88	0.33888	0.338879	2.05E-09	1	4	DG8S215	2	INVSNP
0.999964	1	0	0.321438	86	0.321438	0.321437	2.05E-09	1	0	DG8S215	1	INVSNP
0.999964	1	0	0.056469	86	0.056469	0.05647	2.03E-09	1	. 0	DG8S215	2	INVSNP
1	1	0	0.137931	, 29	0.137931	0.137931	0	1	. 0	DG8S221	1	INVSNP
1	1	0	0.155172	29	0.155172	0.155172	0	1	0	DG8S221	ı 2	INVSNP
1	1	0	0.362069	29	0.362069	0.382069	0	1	5	DG8S221	1	INVSNP
1 .	. 1	0	0.155172	29	0.155172	0.155172	0	1	-2	DG8S221	1	INVSNP
1	1	0	. 0.068966	29	0.068988	0.068966	0	1	7	DG8S221	2	INVSNP
1	1	0	0.034483	29	0.034483	0.034483	0	1	4	DG8S221	1	INVSNP
1	1	0	0.086207	29	0.086207	0,086207	0	1	4	DG8S221	2	INVSNP
0.999993	1	Ö	0.231682	120	0.231682	0.231682	7.94E-11	1	0	DG8S232	1	INVSNP
0.999993	1	ō	0.089152	120	0.089152	0.089152	7.81E-11	1	Ō	DG8S232	2	INVSNP
0.99993	1	ō	0.22712	120	0.22712	0.22712	7.17E-11	1	2	DG8S232	1	INVSNP
0.999993	i	ŏ	0.152046	120	0.152046	0.152046	6.92E-11	1	2	DG8\$232	2	INVSNP
0.999993	1	ő	0.1375	120	0.1375	0.1375	8.00E-11	i	-8	DG8S232	1	INVSNP
0.999993	1	Ö	0.020319	120	0.020319	0.020319	7.48E-11	1	-4	DG8\$232	1	INVSNP
		Ö	0.020319	120	0.020318	0.020318	7.48E-11	1	-4	DG8S232	ż	INVSNP
0.999993	1	٥			0.003647	0.003647			4	DG8S232		INVSNP
0.999993	1		0.012545	120			7.97E-11	1			1	
0.999993	1	0	0.016621	120	0.016821	0.016621	7.99E-11	1	4	DG8S232	2	INVSNP
0.999993	1	0	0.029167	120	0.029167	0.029167	8.00E-11	1	-2	DG8S232	1	INVSNP
1	1	0	0.547244	127	0.547244	0.547244	0	1	0	DG8S238	1	INVSNP
1	1	0	0.358268	127	0.358268	0.358268	0	1	0	DG8S238	2	INVSNP
1	1	0	0.094488	127	0.094488	0.094488	0	1	-8	DG8S238	1	INVSNP
1.	1	0	0.577257	83	0.577257	0.577257	5.68E-14	1	4	DG8S242	. 1	INVSNP
1	1	0	0.085394	83	0.085394	0.085394	5.68E-14	1	4	DG8S242	2	INVSNP
1	1	0	0.079369	83	0.079369	0.079369	5.68E-14	1	0	DG8S242	1	INVSNP
1	1	0	0.25798	83	0.25798	0.25798	6.68E-14	1	0	DG8S242	2	INVSNP
0.999998	1	0	0.576849	81	0.576849	0.576849	7.62E-12	1	0	DG8S245	1	INVSNP
868689.0	1	0	0.305867	81	0.305887	0.305867	7.45E-12	1	0	DG8S245	2	INVSNP
0.999998	1	0	0.05249	81	0.05249	0.05249	6.20E-12	1	-4	DG8S245	1	INVSNP
86666.0	1	0	0.027757	81	0.027757	0.027757	4.49E-12	1	-4	DG8S245	2	INVSNP
0.899998	1	O	0.024982	81	0.024982	0.024982	7.84E-12	1	4	DG8S245	1	INVSNP
0.999998	1	ō	0.012055	81		0.012055	7.05E-12	1	4	DG8S245	2	INVSNP
0.999993	1	ō	0.351139	125	0.351139	0,351139	8.16E-11	1	á	DG8S249	1	INVSNP
0.899993	1	ō	0.256861	125	0.256861	0.256861	8.08E-11	1	ŏ	DG8S249	2	INVSNP
0.999993	1	ā	0.179888	125	0.179888	0.179888	7.98E-11	1	-19	DG8S249	1	INVSNP
0.899993	1	ō	0.008112	125		0.008112	7.74E-11	i	-19	DG8S249	2	INVSNP
0.999992	i	ŏ	0.012	125	0.012	0.012	8.86E-11	i	-17	DG8S249	2	INVSNP
0.999992	1	ŏ	0.016	125	0.016	0.016	8.86E-11	i	-21	DG8S249	1	INVSNP
0.999993	1	ő	0.051345	125	0.051345	0.051345	8.80E-11	1	-2	DG8S249	i	INVSNP
0.99993	1	ő	0.028655	125	0.031343	0.028655	8.75E-11	1	-2	DG8S249	2	INVSNP
0.999992	1	ő	0.028	125	0.020	0.008	8.86E-11	1	6	DG8S249	2	INVSNP
	-		0.005628		0.005628				_	DG8S249	1	INVSNP
0.999993	1	0		125			8.82E-11	1	2			
0.999992	1	0	0.018372	125	0.018372	0,018372	8.84E-11	1	2	DG8S249	2	INVSNP
0.999992	1	0	0.032	125	0.032	0.032	8.86E-11	1	-6	DG8S249	1	INVSNP
0,999992	1	0	0.008	125	800.0	0.008	8.88E-11	1	4	DG8S249	2	INVSNP
0.999992	1	0	0.024	125	0.024	0,024	8.86E-11	1	-4	DG8S249	2	INVSNP
0.999942	1	0	0.018288	91		0.018288	5.27E-09	1	-10	DG8S250	1	INVSNP
0.999942	1	0	0.01468	91	0.01468		5.25E-09	1	-10	DG8S250	2	INVSNP
0.999942	1	0	0.181834	91	0.181834		5.26E-09	1	-4	DG8S250	1	INVSNP
0.999942	1	0	0.059924	91	0.059924	0.059925	5.26E-09	1	-4	DG8S250	2	INVSNP
0.999942	1	0	0.038825	91	0.038825	0.038825	5.26E-09	1	2	DG8S250	1	INVSNP
0.999942	1	0	0.054581	91	0.054581	0.054581	5.27E-09	1	2	DG8S250	2	INVSNP
0.999942	1	0	0.11064	91	0.11064	0.11064	5.26E-09	1	4	DG8S250	1	INVSNP
0.999942	1	O	0.098151	91	0.098151	0.098152	5.26E-09	1	4	DG8S250	2	INVSNP
0.999942	1	0	0.08147	91	0.06147	0.061471	5.26E-09	1	-2	DG8S250	1	INVSNP
0.999942	1	ō	0.015453	91	0.015453		5.25E-09	1	-2	DG8S250	2	INVSNP
0.999942	1	Ď	0.156164	91	0.156164	0.156163	5.24E-09	1	0	DG8S250	1	INVSNP
0.999942	1	ō	0.074608	91	0.074608	0.074608	5.25E-09	1	Õ	DG8S250	2	INVSNP
0.999942	i	ŏ	0.016484	91	0.016484	0,016484	5.28E-09	i	8	DG8S250	1	INVSNP
	•	•					4 D.~	•	-		•	

							•					
0.999942		0			0.00891		2 5.26E-09	9 1	-8	DG8S250		1 INVSNP
0.999942 0.999942		0			0.01308			9 1	-8			2 INVSNP
0.999942		0			0.01726 0.01570				6	DG8S250		1 INVSNP
0.999942		ō			0.01370			-	6	DG8S250		2 INVSNP
0.999942		0			0.01098				-12 -6	DG8S250 DG8S250		2 INVSNP
0.999999		0							0	DG8S250		1 INVSNP 1 INVSNP
0.999999		0					1 1.71E-12		ō	DG8S257		2 INVSNP
0.999999		. 0				7 0.01997			-6	DG8S257		1 INVSNP
0.999999		. 0							-6	DG8S257	:	2 INVSNP
0.999999	i	ő							-2	DG8S257		1 INVSNP
0.99999	1	0							-2 2	DG8S257 DG8S257		2 INVSNP
0.999999	1	0	0.004098	122					-9	DG8S257		I INVSNP
0.999998	1	0	0.041714						15	DG8S258	•	
0.999998	1	0	0.129582						15	DG8S258	2	
0.999998	1	0	0.342035 0.21815		0.34203 0.2181				18	DG8S258	1	
0.999998	i	ŏ	0.237333		0.23733				18	DG8S258	2	
0.999998	1	0	0.008037			7 0.008037			12 12	DG8S258	1	
866666	1	0	0.00463	108	0.0046				24	DG8S258 DG8S258	2	
0.999998	1	0	0.013177			7 0.013177	8.19E-12		21	DG8S258	1	
0.999988	1	0	0.005341		0.00534			1	21	DG8S258	2	
1	1	0	0.61991 0.090318	-	0.6199		-	1	2	DG8S261	1	INVSNP.
i	i	ŏ	0.050546		0.090318		_	1	2	DG8S261	2	
1	1	0	0.239228		0.239228			1.	0	DG8S261 DG8S261	1	
0.999978	1	0	0.012168			0.012168		i	-4	DG8S262	, 2 1	INVSNP INVSNP
0.999978	1	0	0.016959		0.016959		7.62E-10	Í	-4	DG8S262	2	
·0.999978 0.999978	1	0	0.453984		0.453984			1	0	DG8S262	1	INVSNP
0.999978	1	Ö	0.128541 0.032523	103 103	0.128541 0.032523			1	0	DG8\$262	2	INVSNP
0.999978	1	ŏ	0.083982		0.083982			1	-10	DG8S262	1	INVSNP
0.999978	1	0	0.126793	103	0.126793			1	-10 2	DG8S262 DG8S262	2	INVSNP
0.999978	1	0	0.047964	103	0.047964	0.047984		i	2	DG8S282	1 2	INVSNP INVSNP
0.999978	1	0	0.013543	103	0.013543		7.64E-10	1	-2	DG8S262	1	INVSNP
0.999978 0.999978	1	0	0.005874 0.016328	103	0.005874		7.65E-10	1	-2	DG8S262	2	INVSNP
0.999978	i	Ö	0.046779	103 103	0.016328 0.046779		7.62E-10	1	4	DG8S262	1	INVSNP
0.999978	1	ŏ	0.004854	103	0.004854		7.68E-10 7.74E-10	1	4	DG8S282 -	2	INVSNP
0.999978	1	0	0.009709	103	0.009709		7.74E-10	1	-14 8	DG8S262 DG8S262	2 2	INVSNP
0.999995	1	0	0.03076	117	0.03076		3.46E-11	i	15	DG8S285	1	INVSNP INVSNP
0.999995	1	0	0.135907	117	0.135907		4.41E-11	1	15	DG8S265	2	INVSNP
0.999995 0.999995	1	0	0.349032 0.219345	117	0.349032		4.38E-11	1	18	DG8S265	1	INVSNP
0.999995	i	ő	0.227332	117 117	0.219345 0.227332		4.25E-11	1	18	DG8\$265	2	INVSNP
0.999995	1	ŏ	0.007711	117	0.227332		4.72E-11 4.65E-11	1	12	DG8S265	1	INVSNP
0.999995	1	0	0.012535	117	0.012535		4.42E-11	1	12 21	DG8S265 DG8S265	2	INVSNP
0.999995	1	0	0.004559	117	0.004659	0.004559	3.80E-11	i	21	DG85265	2	INVSNP INVSNP
0.999994 0.999987	1	0	0.012821	117	0.012821	0.012821	4.88E-11	1	-6	DG8S265	ĩ	INVSNP
0.999987	1	ŏ	0.199159 0.21976	111 111	0.199159	0.199159	2.49E-10	1	-2	DG8S266	1	INVSNP
0.999987	1	ŏ	0.398591	111	0.21976 0.396591	0.21976 0.396591	2.50E-10 2.72E-10	1	-2	DG8S266	2	INVSNP
0.999987	1	0	0.035842	111	0.035842	0.035842	2.63E-10	1	0	DG8S266 DG8S268	1	INVSNP
0.999987	1	0	0.034881	111	0.034881	0.034881	2.73E-10	i	-4	DG8S266	2 1	INVSNP INVSNP
0.999987	1	0	0.113767	111	0.113767	0.113767	2.64E-10	1	-4	DG8\$268	ż	INVSNP
1	1	0	0.065626 0.320339	114	0.065626	0.065626	1.14E-13	1	-4	DG8S269	1	INVSNP
i	i	ŏ	0.572488	114 114	0.320339 0.572488	0.320339 0.572488	1.71E-13	1	-4	DG8S269	2	INVSNP
1	1	0	0.028389	114	0.028389		1.14E-13 -5.68E-14	1	0	DG8S269 DG8S269	1	INVSNP
1	1	٥	0.002237	114	0.002237		1.14E-13	i	-5	DG8S269	2 1	INVSNP INVSNP
1	1	0	0.010921	114	0.010921		0	1	· -5	DG8S269	2	INVSNP
0.999995 0.999995	1	0	0.258938	79	0.258938		3.46E-11	1	-2	DG8S271	1	INVSNP
0.999995	i	Ö	0.051189 0.330114	7 9 79	0.051189 0.330114		3.77E-11	1		DG8S271	2	INVSNP
0.999995	i	ŏ	0.309127	79	0.309127	0.330114 0.309127	3.55E-11 3.52E-11	1		DG8S271	1	INVSNP
0.999994	1	0	0.018544	79	0.018544	0.018544	4.81E-11	1		DG8S271 DG8S271	2	INVSNP
0.999994	1	0	0.02576	79	0.02578	0.02576	4.81E-11	i		DG8S271	1 2	invsnp Invsnp
0.999994	1	0	0.006329	79	0.006329	0.006329	4.81E-11	1		DG8S271	2	INVSNP
0.999969 0.999969	1	0	0.005376	93	0.005376	0.005376	1.51E-09	1		DG8S277	• 1	INVSNP
0.999969	i	0	0.192029 0.039154	93 93	0.192029	0.19203	1.50E-09	1		DG8\$277	1	INVSNP
0.999969	1	ŏ	0.319108	93		0.039153 0.319108	1.50E-09	1		DG8S277	2	INVSNP
0.999969	1	ō	0.008849	93		0.008849	1.51E-09 1.51E-09	1		DG8\$277	1	INVSNP
0.999969	1	D	0.025918	93		0.025918	1.50E-09	1		DG8S277 DG8S277	2 1	INVSNP
0.999989	1	0	0.086985	93	0.086985		1.49E-09	i		DG8S277	2	INVSNP INVSNP
0.999969 0.999969	1	0	0.071375	93		0.071375	1.51E-09	1	2 [OG88277	1	INVSNP
0.999969 0.999969	1	0	0.165184 0.040712	93		0.165184	1.49E-09	1	2 [DG8S277	2	INVSNP
0.999969	ί	Ö	0.040712	93 93		0.040712 0.007675	1.505-09	1		DG8S277	1	INVSNP
0.999969	i	ŏ	0.010753	93		0.007675	1.50E-09 1.51E-09	1		OG8\$277	2	INVSNP
0.999969	1	0	0.005376			0.005376	1.51E-09	1		DG8S277 DG8S277	2 1	INVSNP
0.999969	1	0	0.005376	93	0.005376		1.51E-09	i	_	DG8S277	2	INVSNP INVSNP
						10 44	-		-	·	-	

			•				•					
0.999969	1	0	0.012148	93	0.012148	0.012148	1.50E-09	1	12	DG8S277	1	INVSNP
0.999969	1	0	0.003981	93	0.003981	0.003982	1.50E-09	i	12	DG8S277	2	
0.999985	1	0	0.429558	116	0.429556	0.429557	3.65E-10	i	0	DG8S285	1	
0.999984	1	ō	0.186823	116	0.186823		3.96E-10	i	Ö		2	
0.999984	1	ŏ.		116	0.158948		3.81E-10	i	2	DG8S285	1	
0.999984	1	ŏ.	0.151399	116	0.151399		3.81E-10	i		DG8\$285	2	
0.999984	i	ŏ	0.045119	116	0.045119	0.045119	4.01E-10	i	2	DG8S285	1	
0.999984	i	ō	0.015226	116	0.015226	0.015226				DG8S285		
0.999984	1	ő	0.012931	116	0.012931	0.013226	3.88E-10	1	1	DG8S285	2	
0.899999	i	ŏ	0.436406	105	0.438406		4.04E-10	1	-1	DG8S285	1	
0.999999	i	Ö	0.130261	105			4.55E-13	1	0	DG8S291	1	
					0.130261	0.130261	5.68E-13	1	0	DG8S291	2	
0.999999	1	0	0.052381	105	0.052381	0.052381	4.55E-13	1	-2	DG8S291	2	
1	1	.0	0.123579	105	0.123579	0.123579	3.41E-13	1	4	DG8S291	1	
0.999999	1	0	0.081183	105	0.081183		4.55E-13	1	4	DG8S291	2	
1	1	D	0.063824	105	0.063824	0.063824	1.14E-13	1	2	DG8S291	1	INVSNP
1	1	0	0.093319	_. 105	0.093319	0.093319	1.14E-13	1	2	DG8S291	2	INVSNP
0.999999	1	0	0,019048	105	0.019048		4.55E-13	1	6	DG8S291	. 2	INVSNP
0.999935	1	0	0.409193	124	0.409193	0.409194	6,55E-09	1	2	DG8S292	. 1	INVSNP
0.999936	1	0	0.308549	124	0.308549	0.308548	6.52E-09	1	2	DG8S292	2	INVSNP
0.999936	1	0	0.231936	124	0.231936	0.231935	6.53E-09	1	0	DG8S292	1	INVSNP
0.999936	1	0	0.050322	124	0.050322		6.53E-09	1	Ō	DG8S292	2	INVSNP
0.999983	1	0	0.100223	111	0.100223	0.100223	4.49E-10	1	12	DG8S297	1	INVSNP
0.999983	1	0	0.115994	111	0.115994	0.115994	4.34E-10	1	12	DG8S297	ż	INVSNP
0.999983	1	0	0.391988	111	0.391988	0.391988	4,46E-10	1	0	DG8S297	1	INVSNP
0.999983	1	Ö	0.026931	111	0.026931	0.026931	4.31E-10	i	Ö	DG8S297	2	INVSNP
0.999983	1	ō	0.009139	111	0.009139	0.009139	4.34E-10	i	4	DG8S297	1	INVSNP
0,999983	1	Ō	0.094464	111	0.094464	0.094464	4.35E-10	i	4	DG8S297	_	INVSNP
0,999983	1	ŏ	0.078894	111	0.078894	0.078894	4.46E-10	i	18	DG8S297	, 2	INVSNP
0.999983	1	ŏ	0.020205	111	0.020205	0.020205	4.39E-10	. ;	16			
0.999983	1	ŏ	0.004515	111	0.004515	0.020203			8	DG8S297	2	INVSNP
0.999983	1	ŏ	0.018008	111	0.018008		4.33E-10	1	-	DG8S297	1	INVSNP
0.999983	i	ŏ	0.008503			0.018008	4.38E-10	1	8	DG8S297	2	INVSNP
0.999983				111	0.008503	0.008503	4.49E-10	1	-4	DG8S297	1	INVSNP
		0	0.005011	111	0.005011	0.005011	4.46E-10	1	-4	DG8S297	2	INVSNP
0.999983	1	0	0.004837	111	0.004837	0.004837	4.49E-10	1	18	DG8S297	1	INVSNP
0.999983	1	0	0.004172	111	0.004172	0.004172	4.49E-10	1	18	DG8S297	2	INVSNP
0.999983	1	0	0.005589	111	0.005589	0.005589	4.41E-10	1	6	DG8S297	1	INVSNP
0.999983	1	0	0.016934	111	0.016934	0.016934	4.46E-10	1	6	DG8S297	2	INVSNP
0.999983	1	0	0.00472	111	0.00472	0.00472	4.49E-10	1	10	DG8S297	1	INVSNP
0.999983	1	0	0.026812	111	0.026812	0.026812	4.49E-10	1	10	DG8S297	2	INVSNP
0.999983	1	0	0.026729	111	0.026729	0.026729	4.39E-10	1	14	DG8S297	1	INVSNP
0.999983	1	0	0.03183	111	0.03183	0.03183	4.40E-10	1	14	DG85297	2	INVSNP
0.999983	1	0	0.004505	111	0.004505	0.004505	4.49E-10	1	-2	DG8S297	1	INVSNP
1	1	0	0.469828	116	0.469828	0.469828	0	1	0	DG8S298	1	INVSNP
1	1	0	0.340517	116	0.340517	0.340517	0	1	٥	DG8S298	2	INVSNP
1	1	0	0.172414	116	0.172414	0.172414	0	1	2	DG8S298	1	INVSNP
1	1	0	0.017241	116	0.017241	0.017241	0	1	1	DG8S298	. 1	INVSNP
0.99998	1	0	0.529405	117	0.529405	0.529404	6.31E-10	1	0	DG8\$301	1	INVSNP
0.99998	1	0	0.26974	117	0.26974	0.269741	6.60E-10	1	0	DG8S301	2	INVSNP
0.999979	1	0	0.107347	117	0.107347	0.107348	6,65E-10	1	1	DG8S301	1	INVSNP
0.999979	1	0	0.093508	117	0.093508	0.093507	6.65E-10	1	1	DG8S301	2	INVSNP
1	1	0	0.285622	117	0.285622	0.285622	1.14E-13	1	26	DG8S302	1	INVSNP
1	1	0	0.120361	117	0.120361	0.120361	1.14E-13	1	26	DG8S302	2	INVSNP
1	1	0	0.141026	117	0.141026	0.141026	0	1	24	DG8S302	1	INVSNP
1	1	0	0.09472	117	0.09472	0.09472	-2.27E-13	1	28	DG8S302	i	INVSNP
1	1	0	0.174511	117	0.174511	0.174511	1.14E-13	1	28	DG8S302	2	INVSNP
1	1	Ö	0.051282	117	0.051282	0.051282	0	i	30	DG8S302	2	INVSNP
1	1	0	0.132479	117	0.132479	0.132479	ő	i	Ö	DG8S302	î	INVSNP
0.999995	1	0	0.41528	125	0.41528	0,41528	3.34E-11	i	2	DG8S303	i	INVSNP
0.999995	1	Ô	0.30072	125	0.30072	0,30072	3.19E-11	i	2		_	INVSNP
0.999995	1	ō	0.004	125	0.004	0.004	4.27E-11	1	4	DG8S303 DG8S303	1	INVSNP
0.999996	1	ō	0.23272	125	0.23272	0.23272	3.02E-11	i	2	DG8S303	i	INVSNP
0.999995	1	ŏ	0.04728	125	0.04728	0.04728	3.87E-11	1	-2	DG8S303	2	INVSNP
0.999973	1	ŏ	0.097119	56	0.097119	0.097119	1.14E-09	1	o o	DG8S307	1	
0.999973	1	ŏ	0.081453	56	0.081453	0.081453	1.14E-09	1	Ö	DG8S307		INVSNP INVSNP
0.999973	i	ŏ	0.478121	56	0.478121	0.47812	1.11E-09	1	4		2	
0.999973	i	ŏ	0.182593	56	0.182593					DG8S307 DG8S307	1	INVSNP
0.999973	1	ŏ	0.07067	56	0.07087	0.07067	1.14E-09	1	4		2	INVSNP
0.999973	1	ő	0.078616	56	0.018618		1.14E-09	1	-4	DG8S307	1	INVSNP
							1.14E-09	1	-4	DG8S307	2	INVSNP
0.999973 0.999973	1	0	0.041591	56 56	0.041591	0.041591	1.14E-09	1	8	DG8S307	1	INVSNP
			0.029838	56	0.029838	0.029838	1.14E-09	1	8	DG8S307	2	INVSNP
0.999995	1	0	0.397395	102	0.397395	0.397395	3.68E-11	1	0	DG8S308	1	INVSNP
0.999986	1	0	0.21535	102	0.21535	0.21535	3.08E-11	1	0	DG8S308	2	INVSNP
0.999995	1	0	0.122939	102	0.122939		3.81E-11	1	2	DG8S308	1	INVSNP
0.999998	1	0	0.083335	102	0.083335	0.063335	3.09E-11	1	2	DG8S308	2	INVSNP
0.999994	1	0	0.040007	102	0.040007	0.040007	5.12E-11	1	-14	DG8S308	1	INVSNP
0.999994	1	0	0.067836	102	0.087838	0.067836	5.24E-11	1	-14	DG8S308	. 2	INVSNP
0.999994	1	0	0.027894	102	0.027894	0.027894	5.39E-11	1	-4	DG8S308	1	INVSNP
0.999994	1	0	0.011321	102	0.011321	0.011321	5.29E-11	1	-4	DG8S308	2	INVSNP
0.999994	1	0	0.029412	102	0.029412	0.029412	5.51E-11	1	-6	DG8S308	1	INVSNP
0.999994	1	0	0.004902	102	0.004902		5.51E-11	1	-2	DG8S308	2	INVSNP
0.999994	1	0	0.019608	102	0.019608	0.019808	5.51E-11	1	4	DG8S308	1	INVSNP
1	1	0	0.010753	93	0.010753	0.010753	2.27E-13	1	8	DG8S316	í	INVSNP
1	1	0	0.341125	93	0.341125	0.341125	1.14E-13	1	10	DG8S316	i	INVSNP

				•		60/90	`					
4		0	0 000000	02	0.000000				40	Doopera	_	INIVONIO
1	1	0	0.008338 0.090976	93 93	0.008338 0.090976	0.008338	0 -1.14E-13	1	10 0	DG8S316 DG8S316	2 1	INVSNP INVSNP
. i	1	0	0.274616	93	0.274616	0.274616	2.27E-13	i	ŏ	DG8S316	2	INVSNP
1	1	0	0.07174	93	0.07174	0.07174	-1.14E-13	1	12	DG8S316	1	INVSNP
1	1	٥.	0.019658 0.125192	93 93	0.019658 0.125192	0,019658 0,125192	0 1.14E-13	1	12 14	DG8S316 DG8S316	2 1	INVSNP
i	1	ō	0.036098	93	0.036098	0.036098	0	i	14	DG85316	2	INVSNP
1	1	0	0.021505	93	0.021505	0.021505	2.27E-13	1	16	DG8S316	1	INVSNP
1	1	0	0.358222 0.094903	96 96	0.358222 0.094903	0.358222	0	1	2 2	DG8S322 DG8S322	1 2	INVSNP INVSNP
i	i	ŏ	0.015625	98	0.015825		Ö	1	10	DG8S322	1	INVSNP
1	1	0	0.063653	98	0.063653	0,063653	-1.14E-13	1	0	DG8S322	1	INVSNP
1	1	0	0.259263 0.145833	98 98	0.259283 0.145833	0.259263 0.145833	1.14E-13 0	1	0	DG8S322	2 1	INVSNP INVSNP
1	1	0	0.0825	98	0.0625	0.145833	. 0	1	4 6	DG8S322 DG8S322	1	INVSNP
0.999954	1	0	0.427397	100	0.427397	0.427398	3.30E-09	1	ō	DG8S323	1	INVSNP
0.999954	1	0	0.262604	100	0.262604		3.34E-09	1	0	DG8S323	2	INVSNP
0.999954 0.999954	1	0	0,252603 0.057397	100 100	0.252603 0.057397	0.252602 0.057398	3.30E-09 3.32E-09	1	5 5	DG8S323 DG8S323	1 2	INVSNP INVSNP
0.998918	- i	ŏ	0.115522	104	0,115522		1.84E-06	i	ŏ	DG8S324	ī	INVSNP
0.998918	1	0	0.19217	104	0.19217	0.192169	1.84E-06	1	0	DG8S324	2	INVSNP
0.998918 0.998918	1	0	0.009815 0.093586	104 104	0.009615 0.093586		1.84E-06 1.84E-06	1	10 8	DG8S324 DG8S324	2 1	INVSNP INVSNP
0.998918	i	ő	0.098722	104	0.098722	0.098722	1.84E-06	i	8	DG8S324	2	INVSNP
0.998918	1	0	0.096154	104	0.098154	0.098154	1.84E-06	1	6	DG8S324	1	INVSNP
0.888919	1	0	0.124015	104	0.124015	0.124008	1.84E-06	1	4	DG8S324	1	INVSNP
0.998919 0.998918	.1 1	0	0.000985	104 104	0.000985	0.000992	1.84E-06 1.84E-06	1	4 2	DG8S324 DG8S324	, 2 1	INVSNP INVSNP
0.998918	i	Ď	0.011008	104	0.011008	0.011002	1.84E-06	i	2	DG8S324	2	INVSNP
0.998918	1	0	0.019231	104	0.019231		1.84E-06	1	12	DG8S324	2	INVSNP
0.999689	1	0	0.127469 0.052711	111 111	0.127469 0.052711		1.52E-07	1	-4 -4	DG8S332 DG8S332	1 2	INVSNP INVSNP
0.999689	1	Ö	0.052711	111	0.052711	0.052711	1.52E-07 1.52E-07	1	4	DG8S332	1	INVSNP
0.999689	1	ō	0.030303	111	0.030303	0.030303	1.52E-07	i	4	DG85332	2	INVSNP
0.999689	1	0	0.105005	111	0.105005		1.52E-07	1	2	DG8S332	. 1	INVSNP
0.999689 0.999689	1	0	0.106707 0.185972	111 111	0.108707 0.185972	0.106708 0.18597	1.52E-07	1	2 -2	DG8S332 DG8S332	2 1	INVSNP INVSNP
0.999689	i	Ö	0.185972	111	0.183872	0.16597	1.52E-07 1.52E-07	1	-2 -2	DG8S332	2	INVSNP
0.999689	1	0	0.114825	111	0.114825	0.114825	1.52E-07	1	ā	DG8S332	1	INVSNP
0.999689	1	0	0.137427	111	0.137427		1.52E-07	1	0	DG8S332	2	INVSNP
0.999689 0.999689	1	0	0.017069 0.005454	111	0.017069 0.005454	0.017069 0.005454	1,52E-07 1,52E-07	1	-8 -6	DG8S332 DG8S332	1 2	INVSNP INVSNP
0.999689	1	ō	0.029513	111	0.029513	0.029518	1.52E-07	1	6	DG8S332	ī	INVSNP
0.999688	1	0	0.002018	111	0.002018	0.002016	1.53E-07	1	6	DG8S332	2	INVSNP
0.999997	1	0	0.282444 0.024487	101	0.282444	0.282444	1.27E-11	1	-5	DG8S333	1	INVSNP
0.999999 0.999997	1	0	0.024487	101 101	0.024487 0.366071	0.024487 0.366071	1.53E-12 1.30E-11	1	-5 0	DG8S333 DG8S333	2 1	INVSNP INVSNP
0.999997	i	Ğ	0.326998	101	0,326998	0.326998	1.30E-11	i	ŏ	DG8S333	2	INVSNP
0.999983	1	0	0.354923	125	0.354923	0.354923	6.87E-11	1	1	SG08S100	1	INVSNP
0.999993 0.999994	1	0	0.085077 0.285077	125 125	0.085077 0.285077	0.065078 0.285077	8.66E-11 6.59E-11	1	1 2	SG08S100 SG08S100	. 2	INVSNP
0.999993	i	Ö	0.294923	125	0.294923	0.294923	6.65E-11	1	2	SG08S100	2	INVSNP
0.999999	1	0	0.508186	119	0.508186	0.508186	1.71E-12	1	1	SG08S102	1	INVSNP
1	1	0	0,025427	119	0.025427	0.025427	3.41E-13	1	1	SG08S102	2	INVSNP
0.999999	1	0	0.155678 0.310707	119 119	0.155679 0.310707		1.53E-12 1.65E-12	1	2 2	SG08S102 SG08S102	1 2	INVSNP INVSNP
0.99996	1	ō	0.501608	123	0.501608	0.501607	2.49E-09	i	õ	SG08S112	1	INVSNP
0,99996	1	0	0.209774	123		0.209775	2.48E-09	1	0	SG08S112	2	INVSNP
0.99996 0.99996	1	0	0.152864 0.135754	123 123	0.152864 0.135754		2.49E-09 2.49E-09	1	2 2	SG08S112 SG08S112	1 2	INVSNP INVSNP
1	i	ŏ	0.567195	124	0.567195		2.482-08	i	ō	SG08S120	1	INVSNP
1	1	0	0.053773	124	0.053773	0.053773	Ŏ	1	ō	SG08S120	2	INVSNP
1	1	0	0.094096	124		0.094096	0	1	2	SG08S120	1	INVSNP
1 0.999997	1	0	0.284937 0.608234	124 122		0.284937 0.608234	0 9.89E-12	1	2 0	SG08S120 SG08S138	2 1	INVSNP INVSNP
0.000001	i	ŏ	0.137668	122		0.137668	8.41E-12	1	ŏ	SG08S138	2	INVSNP
0.999999	1	0	0.039307	122	0.039307		3.01E-12	1	2	SG08S138	1	INVSNP
0.999998	1	0	0.214791	122		0.214791	9.27E-12	1	2	SG08S138	2	INVSNP
0.999999	1	0	0.524172 0.055194	126 126		0.524172 0.055194	1.36E-12 4.55E-13	1	0	SG08S15 SG08S15	1 2	INVSNP
0.999999	1	ō	0.126622	128	0.126822		1.14E-12	i	2	SG08S15	ī	INVSNP
0.999999	1	0	0.294013	128		0.294013	1.25E-12	1	2	SG08S15	2	INVSNP
866666.0 866666.0	1	0	0.10833	124	0.10833	0.10833	6.03E-12	1	0	SG08S26 SG08S26	1	INVSNP
0.999998	1	0	0.294896 0.540864	124 124	0.294896	0.294898 0.540864	7.96E-12 8.30E-12	1	2	SG08S26 SG08S26	2 1	INVSNP
0.999999	i ·	ŏ	0.055911	124	0.055911	0.055911	3.41E-12	i	2	SG08526	ż	INVSNP
0.999999	1	0	0.111247	124	0.111247	0.111247	2.16E-12	1	2 '	SG08S27	1	INVSNP
0.999999	1	0	0.296011 0.546011	124 124	0.296011 0.546011	0.296011 0.546011	2.61E-12 2.61E-12	1	2 1	SG08S27 SG08S27	2 1	INVSNP INVSNP
0.999999	1	0	0.046731	124	0.046731	0.046731	1.02E-12	1	1	SG08S27	2	INVSNP
0.999999	1	0	0.585373	125	0.585373	0.585373	5.12E-13	1	1	SG08S32	1	INVSNP
0.999999	1	0	0.078627	125	0.078627		3.98E-13	1	1	SG08S32	2	INVSNP
1	1	0	0.070627	125	0.070627	0.070627	2.84E-13	1	0	SG08S32	1	INVSNP
				•	۲	IG. 11	R10					

			•				٠,					
0.99999					5 0.26537	3 0.26537	'3 5.12E-13	3 1		SG08S32		2 INVSNE
0.999984									7			1 INVSNP
0.999984			,					1	1			2 INVSNP
0.999984) 1	2			1 INVSNP
0.999984 0.999994								1	2	SG08S35		2 INVSNP
0.999994									1	\$G08S39		1 INVSNP
0.999995									1	SG08S39	:	2 INVSNP
0.999995								•	0			1 INVSNP
0.999958								1	0	SG08S39	:	2 INVSNP
0.999958									0	SG08S42		1 INVSNP
0.999958									0	SG08S42		2 INVSNP
0.999958									2	SG08S42		1 INVSNP
0.99999								1	2	SG08S42	2	2 INVSNP
0.99999									1	SG08S46	-	INVSNP
0.999991		-							1	SG08S46	2	2 INVSNP
0.999991		Ö							3	SG08S48	1	I INVSNP
0.555551		ő						_	3	SG08S46	2	NVSNP
i		ő						•	D	SG08S5	. 1	INVSNP
i		ŏ					_		0	SG08Ş5	2	2 INVSNP
1		ŏ	0.323012				-		2	SG08\$5	1	INVSNP
0.999974		. 0	0.368417						2	SG08S5	2	! INVSNP
0.999974		ŏ	0.079583					1	2	SG08S50	1	
0.999974		ŏ	0.279583					4	2	SG08S50	2	INVSNP
0.999974		ő	0.278503					1	0	SG08S50	1	
0.999973		ŏ	0.456715					1	0	\$G08\$50	2	INVSNP
0.999973		ŏ	0.100662					1	0	SG08S508	1	
0.999973		ŏ	0.199023					1	0	SG08S506	، 2	
0.099973	_	ŏ	0.2436					1	2	SG08S508	1	
0.999969	i	ŏ	0.398835		0.2438			1	2	SG08S508	2	
0.999969	1	ő	0.0218		0.0218	0.398835		1	2	SG08S507	1	
0.999969	i	ő	0.251958		0.251958			1	2	SG08S507	2	
0.999969	1	ō	0.327407		0.327407			1	3	SG08S507	1	
0.999986	1	ō	0.452263		0.452263			1	3	SG08S507	2	
0.999986	i	ŏ	0.027076		0.432203			1	1	SG08S508	1	INVSNP
0.999986	1	ŏ	0.213027		0.213027			1	1	SG08S508	2	INVSNP
0.999986	1	ō	0.307634		0.307634			1	3	SG08S508	1	INVSNP
0.99999	1	Ō	0.431315			0.431315		1	3	SG08S508	2	INVSNP
0.99999	1	ŏ	0.320821	117	0.320821			1	1	SG08S510	1	INVSNP
0.99999	1	o	0.239825			0.239625	1.47E-10 1.45E-10	1	1	SG08S510	2	INVSNP
0.999991	1	0	0.008238		0.008238			1	0	SG08S510	1	INVSNP
0.999986	1	0	0.122008	104	0.122008		3.28E-10	1	1	SG08S510	2	INVSNP
0.999986	1	0	0.233761	104	0.233761	0.233761	2.98E-10	i	1	SG08S511	1	INVSNP
0.999987	1	0	0.531838	104	0.531838		2.51E-10	1	3	SG08S511	2	INVSNP
0.999986	1	0	0.112392		0.112392		3.27E-10	i	3	SG08S511 SG08S511	1	INVSNP
0.999983	1	0	0.11373	122	0.11373	0.113731	4.47E-10	i	2	SG08S512	2	INVSNP
0.999983	1	0	0.23463	122	0.23463	0.23463	4.44E-10	i	2	SG08S512	1	INVSNP
0.999983	1	0	0.542007	122	0.542007		4.39E-10	i	î	SG08S512	2 1	INVSNP
0.999983	1	0	0.109632	122	0.109632	0.109632	4.47E-10	i	i	SG08S512	2	INVSNP
0.999998	1	0	0.503891	118	0.503891	0.503891	3.98E-12	i	i	SG08S517	1	INVSNP
0.999999	1	0	0.02577	118	0.02577	0.02577	6.82E-13	i	i	SG08S517	2	INVSNP INVSNP
0,999998	1	0	0.152889	118	0.152889		3.58E-12	1	3	SG08S517	1	INVSNP
0.999998	1	0	0.31745	118	0.31745	0.31745	3.92E-12	1	3	SG08S517	2	INVSNP
0.999989	1	0	0.210076	123	0.210076	0.210076	1.74E-10	1	1	SG08S520	1	INVSNP
0.99999	1	0	0.310249	123	0.310249	0.310249	1.52E-10	1	1	SG08S520	2	INVSNP
0.99999	1	. 0	0.452526	123	0.452526	0.452526	1.55E-10	1	Ó	SG08S520	ī	INVSNP
0.999989	1	. 0	0.027149	123	0.027148	0.027149	1.74E-10	1	0	SG08S520	ż	INVSNP
0.999993	1	0	0.610402	122	0.610402	0.810402	7.37E-11	1	2	SG08S6	1	INVSNP
0,899993	1	0	0.16009	122	0.16009	0.16009	8.69E-11	1	2	SG08S6	2	INVSNP
0.899993	1	0	0.045338	122	0.045336		8.67E-11	1	0	SG08S6	1	INVSNP
0.999993	1	0	0.184172	122	0.184172		8.66E-11	1	0	SG08S6	2	INVSNP
0.999999	1.	0	0.503969	120	0.503969		1.59E-12	1	1	SG08S70	1	INVSNP
0.000000	1	0	0.025198	120	0.025198		2.27E-13	1	1	SG08S70	2	INVSNP
0.999999	1	0	0.154365	120	0.154365		1,36E-12	1	3	SG08S70	1	INVSNP
0.999999	1	0	0.316469	120	0.316469		1.59E-12	1	3	SG08S70	2	INVSNP
	1	0	0.146941	119	0.146941		4.55E-13	1	0	SG08S71	1	INVSNP
0.998999	1	0	0.323847	119	0.323647		4.55E-13	1	0	SG08S71	2	INVSNP
0.999999	1	0	0.504319	119	0.504319		4.55E-13	1	2	SG08S71	1	INVSNP
1 0.999997	1	0	0.025092	119	0.025092		1.14E-13	1	2	SG08S71	2	INVSNP
0.998999		0	0.499413	117	0.499413		1.16E-11	1	3	SG08S73	1	INVSNP
0.999997	1	0	0.026228	117		0.026228	2.22E-12	1	3	SG08S73	2	INVSNP
0.999997	1	0	0.154433	117	0.154433		1.03E-11	1	1	SG08S73	1	INVSNP
0.999998			0.319928	117		0.319926	1.14E-11	1	1	SG08S73	2	INVSNP
1	1	0	0.468698	120	0.468698		5.00E-12	1	1	SG08S76	1	INVSNP
0.999998		0	0.010469	120		0.010469	2.27E-13	1	1	SG08S78	2	INVSNP
0.999998	1	0	0.185469	120		0.185469	4.89E-12	1	2	SG08S76	1	INVSNP
0.999978	1	0	0.335365	120		0.335365	4.89E-12	1	2	SG08S78	2	INVSNP
0.999978	1	0	0.447056	122		0.447056	7.54E-10	1		SG08S90	1	INVSNP
0.999978	i	0	0.093928	122		0.093928	7.58E-10	1		SG08S90	2	INVSNP
0.999978	i	0	0.208682	122		0.208682	7.52E-10	1		SG08S90	1	INVSNP
0.999946	1	0	0.250335	122		0.250334		1		SG08S90	2	INVSNP
	•	U	0.557371	130	0.557371	0.55737		1	1 .	SG08S93	1	INVSNP
						\sim 44	D 4 4					

62/90

0.999946	1	0	0.265705	130	0.265705	0.265707	4.63E-09	1	1	SG08S93	2	INVSNP
0.999946	1	. 0	0.088782	130	0.088782	0.088784	4.63E-09"	1	2	SG08S93	1	INVSNP
0.999946	1	0	0.088141	130	0.088141	0.088139	4.63E-09	. 1	2	SG08S93	2	INVSNP
0.999936	1	0	0.316819	112	0.316819	0.316819	6.35E-09	1	0	SG08S94	1	INVSNP
0.999938	1	0	. 0.009074	112	0.009074	0.009074	6.34E-09	1	0	SG08S94	2	INVSNP
0.999938	1	0	0.357288	112	0.357288	0.357289	6.35E-09	1	2	SG08S94	1	INVSNP
0.999936	1	٥	0.316819	112	0.316819	0.316819	6.35E-09	1	2	SG08S94	2	INVSNP
1	1	0	0.061731	101	0.061731	0.061731	5.68E-14	1	2	SG08S95	1	INVSNP
1	1	0	0.304606	101	0.304606	0.304606	5.68E-14	1	2	SG08S95	2	INVSNP
1	1	0	0.601636	101	0.601636	0.601636	1.14E-13	1	3	SG08S95	1	INVSNP
1	1	0	0.032028	101	0,032028	0.032028	5.68E-14	1	3	SG08S95	2	INVSNP
0.99999	1	0	0.281511	114	0.261511	0.261511	1.46E-10	1	2	SG08S98	1	INVSNP
66666.0	1	0	0,277963	114	0.277963	0.277963	1.47E-10	1	2	SG08S96	2	INVSNP
0.99999	1	0	0.396384	114	0.396384	0.396384	1.57E-10	1	3	SG08S96	1	INVSNP
0.999991	1	0	0.064142	114	0.064142	0.064142	1.38E-10	1	3	SG08S96	2	INVSNP
0.999912	1	0	0,595743	129	0.595743	0.595742	1.21E-08	1	0	SG08S97	1	INVSNP
0.999912	1	0	0.311233	129	0.311233	0.311235	1.21E-08	1	0	SG08S97	2	INVSNP
0.999912	1	0	0.051543	129	0.051543	0.051545	1.21E-08	1	1	SG08S97	1	INVSNP
0.999912	1	0	0.04148	129	0.04148	0.041478	1.21E-08	1	1	SG08S97	2	INVSNP

63/90

1.0356080 0.0710202 2.080	Appendi	x 3: Outpt	ut for ass	sociation	of marke	rs to pan		er.	·····		
0.345269							hesis				
0.345269							Bod				
0.345269		•		ş		_trj	Ŧ				•
0.345269			spa	9	ŝ	fo	Ž	엺			
0.345269			ect	₩	Ę	5	der	affs			
0.345269		Zisk Tisk	Ţ.	Ę	. 8	æ	Ę	3 2	5		
0.345269	<u>a</u>	₩ ₩	9	SE SE	<u>5</u>	ទី	ភ្ជ	nar	SE SE		_
0.345269	/afr	lativ	Ę	ä	Ě	ä	anbi	\$	Ĕ	흦	rker
0.2472165											
0.571632 0.902832 288 0.072238 811 0.002231 0.012305 0.000299 1 4 ACC022239-6-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-											
0.240002	0.571632	0.902632									
0.969871 0.945128 228											
0.785017											
0.105673 0.833981 228 0.041687 574 0.04338 0.30768 2.81776 1 0 0 AC.068974-2 0.91200 1.0369142 0.954783 228 0.041687 574 0.043554 0.043018 0.028413 1 198 AC.068974-2 0.348408 1.22425 228 0.076754 574 0.038575 0.034289 0.012212 1 6 AC.068974-2 0.539288 0.927754 228 0.076754 574 0.00859 0.076234 0.376861 1 20 AC.068974-2 0.259282 0.076754 0.008359 0.076234 0.376861 1 20 AC.068974-2 0.259282 0.176767 228 0.016737 574 0.01324 0.013716 1.5925 1 8 AC.068974-2 0.413329 2.67754 0.2288 0.016937 574 0.01324 0.013716 1.5925 1 8 AC.068974-2 0.413329 2.67754 0.00838 574 0.00823 0.689200 1 1 15 AC.068974-2 0.169771 5.05286 228 0.016935 574 0.002623 0.089230 1 1 15 AC.068974-2 0.169771 5.05286 228 0.016935 574 0.002623 0.089230 1 1 1 2 AC.068974-2 0.169771 5.05286 228 0.004386 574 0.002623 0.089230 1 1 2 AC.068974-2 0.169771 5.05286 228 0.002618 574 0.00261 0.00167 1.88467 1 2 AC.068974-2 0.112837 1888-18 228 0.002183 574 1.16E-07 0.000623 2.51683 1 4 AC.068974-2 0.112837 1888-2 8 228 0.002183 574 0.002671 0.000623 0.689200 1 13 AC.068974-2 0.112837 1898-2 8 2.50E-13 780 0.158846 0.16635 6.57788 1 0 AF.131215-1 0.002527 0.179695 272 0.270221 780 0.33974 0.321758 0.128440 1 2 AF.131215-1 0.002527 0.179695 272 0.025367 780 0.158846 0.16635 6.57788 1 0 AF.131215-1 0.002527 0.179695 272 0.025367 780 0.158846 0.16635 6.57788 1 0 AF.131215-1 0.248646 0.102638 1 1.4408 0.25846 0.002638 0.102638 0.	0.783017	1.05089	228	0.107458							
0.869142 0.984783 228 0.041697 574 0.04854 0.043918 0.022413 1 19 ACC068974-2 0.348408 1.22425 228 0.035968 574 0.036937 0.034298 0.012212 1 8 ACC068974-2 0.208908 1.276764 238 0.004398 574 0.05699 0.002340 0.376881 1 20 ACC068974-2 0.208908 1.757767 228 0.004398 574 0.05699 0.002340 0.376881 1 20 ACC068974-2 0.208908 1.757767 228 0.004398 574 0.05699 0.002340 0.376881 1 20 ACC068974-2 0.208908 1.757767 228 0.004398 574 0.00977 0.000257 0.06858 1.44401 1 18 ACC068974-2 0.208908 1.208280 2.208280 2.208280 0.004386 574 0.00927 0.000252 0.068258 1.44401 1 18 ACC068974-2 0.1699771 0.000257 0.00									1		
0.912008 0.34408 1.22425 2.258 0.078508 574 0.038972 0.034898 0.072142 1 6 A.CO88974-2 0.539288 0.827764 228 0.079737 574 0.008989 0.008234 0.378681 1 20 A.CO88974-2 0.413329 2.678-10 2.28 2.508-13 574 0.008974 0.00823 0.868206 1 15 A.CO88974-2 0.109271 0.109271 0.00823 0.868206 1 15 A.CO88974-2 0.109271 0.00923 0.00823 0.									1		
0.539288 0.627764 228 0.004386 574 0.006989 0.002321 0.378831 1 20 ACC688974-2 0.2908989 1.75767 228 0.019675 574 0.000223 0.686206 1 15 ACC688974-2 0.193771 5.05286 228 0.004386 574 0.000221 0.008385 1.44401 1 18 ACC688974-2 0.193771 5.05286 228 0.002183 574 0.000821 0.00187 1.88467 1 2 ACC688974-2 0.116397 1.3881-8 228 0.002183 574 0.000821 2.01883 1 4 ACC688974-2 0.113297 1.38401 272 0.022206 76 0.100827 0.00687 0.00680 1 3 ACC688974-2 0.0103287 0.719585 272 0.222261 760 0.185246 0.181215 6.17266 1 4 ACC688974-2 0.0214024 1.11426 1.14426 1.14426				0.035088	574	0.033972	0.034289	0.012212	i		
0.208689 1.75787 228 0.019737 574 0.01324 0.013718 1.5925 1 8 AC088974-2 0.22492 2.11012 228 0.01965 574 0.006271 0.000823 0.689206 1 15 AC088974-2 0.156357 1.38E-16 228 0.004366 574 0.006271 0.01617 1.88497 1 2 AC088974-2 0.156357 1.38E-16 228 0.004366 574 0.000871 0.001617 1.88497 1 2 AC088974-2 0.156357 1.38E-16 228 0.002138 574 1.16E-07 0.000623 0.689206 1 13 AC088974-2 0.413329 2.87E-10 228 2.50E-13 574 0.00213 0.001617 1.88495 1 2 AC088974-2 0.413329 2.87E-10 228 2.50E-13 574 0.002813 0.001617 0.000623 0.689206 1 13 AC088974-2 0.413329 2.87E-10 228 2.50E-13 574 0.002813 0.001617 0.000253 0.689206 1 13 AC088974-2 0.003261 0.00326											AC068974-2
0.413329 2.4716-71									-		
0.189771 5.05288 228 0.004386 574 0.002871 0.00187 1.88487 1 2 ACC088974-2 0.112837 1882.8 228 3.055555 574 0.002813 0.00187 2.00911 1 2 ACC088974-2 0.112837 1882.8 228 0.002183 574 1.165-07 0.000282 0.258208 1 4 ACC088974-2 0.002827 0.25208 1.38401 272 0.202208 574 1.165-07 0.000282 0.258208 1 3 ACC088974-2 0.002827 0.715955 2 AF131215-1 0.002827 0.715955 2 AF131215-1 0.251042 0.10328 2.22 0.202208 780 0.153848 0.16835 0.55768 1 2 AF131215-1 0.251042 0.105433 272 0.223897 780 0.330749 0.022892 0.704598 22 AF131215-1 0.251042 0.15323 272 0.223897 780 0.3170285 0.331213 0.244405 1 - 2 AF131215-1 0.251042 0.357708 1.33952 272 0.023897 780 0.03769 0.025872 0.704598 1 2 AF131215-1 0.251042 0.15376 0.37029 0.025872 0.04405 0.15476 0.054202 0.088968 1 AF131215-1 0.245585 0.245085 0.24508 0.24508 0.24508 0.25808 0.2								0,669206	-	15	
0.156557 1.38E-16 228 3.55E-19 574 0.002813 0.00187 2.00911 1 2 ACC08971-2 1 1 1 1 2 ACC08971-2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
0.112837 18882.8 228 0.002193 574 1.16E-07 0.000623 0.56892.00 1 3 ACO68974-2 0.010328 1.39401 272 0.202203 780 0.158346 0.16635 6.57786 1 0 AF131215-1 0.002527 0.719595 272 0.270221 780 0.358744 0.16635 6.57786 1 0 AF131215-1 0.621042 1.05433 272 0.321697 780 0.310258 0.33173 0.244405 1 2 AF131215-1 0.621042 1.05433 272 0.321697 780 0.303769 0.026892 0.704599 1 2 AF131215-1 0.397706 1.33952 272 0.023897 780 0.030769 0.026892 0.704599 1 2 AF131215-1 0.397706 1.33952 272 0.023897 780 0.017649 0.01467 0.716251 1 4 AF131215-1 0.543676 0.8709707 272 0.047747 780 0.041687 0.04220 0.088198 1 4 AF131215-1 0.543676 0.8709707 272 0.047747 780 0.04847 0.052757 0.38862 1 4 AF131215-1 0.652444 1.11131 272 0.040441 780 0.003641 0.003641 0.03308 0.108677 1 6 AF131215-1 0.652444 1.11131 272 0.040441 780 0.003643 0.003641 0.03308 0.108677 1 6 AF131215-1 0.059364 23085.8 272 0.001838 780 0.000441 0.000475 0.531592 1 6 AF131215-1 0.003841 0.771848 233 0.469285 780 0.001282 0.000641 0.531592 1 4 AF131215-1 0.003841 0.771848 233 0.469285 780 0.001282 0.000581 0.10277 1 4 AF131215-2 0.003841 0.771848 233 0.469285 780 0.057365 0.057365 0.016277 1 4 AF131215-2 0.803841 0.771848 233 0.469285 780 0.057365 0.016277 1 4 AF131215-2 0.803877 0.005837 0.005837 0.005837 0.005837 0.005837 0.0005									-		
0.010282										-4	
0.002527 0,719595 272 0,270221 780 0,33974 0,321768 9,12075 1 2 AF131215-1 0,201243 0,771187 272 0,023897 780 0,310258 0,313215 0,244405 1 2 AF131215-1 0,401243 0,771187 272 0,023897 780 0,030769 0,02892 0,704598 1 22 AF131215-1 0,345895 1,24906 272 0,023897 780 0,017049 0,01847 0,715251 1 4 AF131215-1 0,345895 1,24906 272 0,051471 780 0,017049 0,01847 0,715251 1 4 AF131215-1 0,543576 0,870997 272 0,044704 780 0,012827 0,024720 0,888195 1 4 AF131215-1 0,643576 0,870997 272 0,044706 780 0,012827 0,03309 0,10877 1 6 AF131215-1 0,662444 1,11131 272 0,040441 780 0,036839 0,037548 0,167387 1 10 AF131215-1 0,662444 1,11131 272 0,040441 780 0,036839 0,037548 0,167387 1 10 AF131215-1 0,662444 1,11131 272 0,040441 780 0,036839 0,037548 0,167387 1 10 AF131215-1 0,069946 20085.8 272 0,001438 780 0,000841 0,000951 0,351592 1 8 AF131215-1 0,069946 20085.8 272 0,001438 780 0,001282 0,000951 0,351592 1 8 AF131215-1 0,069946 20085.8 272 0,040847 0,001282 0,001287 0,001287 0,001287 0,001287 0,001287 0,001287 0,001287 0,001282 0,001287 0,00											
0.401243 0.771187 272 0.023887 780 0.030769 0.023892 0.704598 1 22 AF131215-1 0.395708 1.3952 272 0.023887 780 0.017491 0.715251 1 4 AF131215-1 0.454885 1.24806 272 0.051471 780 0.041667 0.044202 0.888198 1 8 AF131215-1 0.543578 0.870897 272 0.044704 780 0.054867 0.052757 0.388852 1 4 AF131215-1 0.662444 1.11131 272 0.040441 780 0.015281 0.013308 0.108877 1 6 AF131215-1 0.662444 1.11131 272 0.040441 780 0.005853 0.037848 0.167387 1 10 AF131215-1 0.662444 1.11131 272 0.040441 780 0.000580 0.00587 0.0551892 1 6 AF131215-1 0.089946 23085.8 272 0.001838 780 0.000641 0.000581 0.551892 1 6 AF131215-1 0.099946 23085.8 272 0.001838 780 7.88E-08 0.000647 0.000581 0.551892 1 6 AF131215-1 0.099946 23085.8 272 0.001838 780 0.001280 0.000581 0.19728 1 12 AF131215-1 0.005810 0.771846 283 0.469895 780 0.001280 0.000581 0.19728 1 12 AF131215-1 0.005810 0.771846 283 0.468985 780 0.534615 0.517404 8.95029 1 0 AF131215-2 0.919253 0.978776 283 0.056537 780 0.0057692 0.057505 0.010227 1 8 AF131215-2 0.919253 0.978776 283 0.056537 780 0.001280 0.005124 0.002379 1 -4 AF131215-2 0.223033 2.76553 283 0.0053 780 0.001928 0.005124 0.00227 1 8 AF131215-2 0.223033 2.76553 283 0.0053 780 0.001928 0.002522 1.48476 1 -8 AF131215-2 0.002287 0.44211 292 0.525987 795 0.439189 0.411224 8.87765 1 0 AF131215-4 0.002337 0.002522 1.48476 1 -8 AF131215-4 0.002337 0.002522 1.48476 1 -8 AF131215-4 0.002337 0.002522 1.48476 1 -8 AF131215-4 0.002337 0.002522 1.48476 1 -8 AF131215-4 0.002337 0.002522 1.48476 1 -8 AF131215-4 0.002337 0.002522 1.48476 1 -8 AF131215-4 0.002337 0.002522 0.008493 795 0.439189 0.411224 8.87765 1 0 AF131215-4 0.002337 0.002522 0.008493 795 0.439189 0.411224 8.87765 1 0 AF131215-4 0.002337 0.002522 0.008493 795 0.439189 0.411224 8.87765 1 0 AF131215-4 0.002337 0.002522 0.008493 795 0.00849 0.00467 0.00850 0.02585 0.025850 1 0.025850 0.0	0.002527		272			0.339744	0.321768				
0.345965 1.24406 272 0.02497 780 0.017949 0.014987 0.715251 1 4 AF131215-1 0.345965 0.87097 272 0.047794 780 0.045407 0.044202 0.889198 1 8 AF131215-1 0.543576 0.87097 272 0.047794 780 0.05487 0.052757 0.388652 1 4 AF131215-1 0.743728 1.14925 272 0.014706 780 0.05487 0.052757 0.388652 1 4 AF131215-1 0.465938 2.67107 272 0.0040441 780 0.036539 0.037548 0.1673877 1 6 AF131215-1 0.465938 2.67107 272 0.001838 780 0.005808 0.037548 0.167387 1 10 AF131215-1 0.465938 2.67107 272 0.001838 780 0.005808 0.00575 2.70641 1 14 AF131215-1 0.273666 1.28E-11 272 1.65E-14 780 0.001282 0.000551 0.531592 1 6 AF131215-1 0.273666 1.28E-11 272 1.65E-14 780 0.001282 0.000551 0.515902 1 12 AF131215-1 0.273666 1.28E-11 272 1.65E-14 780 0.001282 0.000551 0.517404 8.95029 1 0 AF131215-2 0.010287 1.28932 283 0.462898 780 0.400641 0.417215 6.58444 1 4 AF131215-2 0.919253 0.978776 283 0.056537 780 0.051598 0.005174 0.002379 1 4 AF131215-2 0.23033 2.76653 283 0.0053 780 0.005128 0.005174 0.002379 1 4 AF131215-2 0.23033 2.76653 283 0.0053 780 0.005128 0.005174 0.002379 1 4 AF131215-2 0.23033 2.76653 283 0.0053 780 0.005128 0.005174 0.002379 1 4 AF131215-2 0.230378 0.832763 292 0.058493 795 0.430189 0.411224 8.87765 1 0 AF131215-2 0.230378 0.832763 292 0.058493 795 0.430189 0.411224 8.87765 1 0 AF131215-4 0.022676 0.832763 292 0.008493 795 0.03145 0.059234 1 1.3134 1 14 AF131215-4 0.23378 0.832763 292 0.008493 795 0.00140737 0.078533 1 10 AF131215-4 0.235767 0.543741 292 0.052865 795 0.0014073 0.00487 0.058234 1 18 AF131215-4 0.2564953 0.056495 0.00649 0.00449 0.00449 0.00449 0.00449 0.00449 0.00449 0.00449 0.00459 0.00469 0.00											
0.345685 1.24806 272 0.051471 780 0.041687 0.04202 0.889188 1 8 AF131215-1 0.543576 0.870997 272 0.047794 780 0.054487 0.052757 0.388052 1 4 AF131215-1 0.653587 1.148025 272 0.014708 780 0.051487 0.052757 0.388052 1 4 AF131215-1 0.802444 1.11131 272 0.040441 780 0.036839 0.037848 0.167887 1 10 AF131215-1 0.069244 2.111131 272 0.040441 780 0.036839 0.037848 0.167887 1 10 AF131215-1 0.069948 23085.8 272 0.001838 780 0.000241 0.000951 0.051592 1 6 AF131215-1 0.099948 23085.8 272 0.001838 780 0.000280 0.0000527 0.000581 0.000471 0.000951 0.051592 1 6 AF131215-1 0.009948 23085.8 272 0.001838 780 0.001282 0.000951 0.19728 1 12 AF131215-1 0.009938 0.771846 283 0.469895 780 0.001280 0.000527 0.000529 1 0 AF131215-1 0.009938 0.771846 283 0.469895 780 0.400241 0.417215 6.88444 1 4 AF131215-2 0.919253 0.978776 283 0.056537 780 0.057692 0.057385 0.010227 1 8 AF131215-2 0.919253 0.978778 283 0.056537 780 0.005124 0.005140 0.002587 0.05335 0.056174 0.00053 780 0.005124 0.005140 0.002587 0.743738 292 0.055389 795 0.450189 0.05174 0.002587 0.437378 0.292 0.05898 795 0.450189 0.041124 0.87765 1 0 AF131215-2 0.23233 0.05653 780 0.001923 0.005174 0.00059 0.056140 0.00058 0.005174 0.00560 0.005864 0.00058 0.005174 0.00560 0.005876 0.00									-		
0.743728 1.14925 272 0.014706 780 0.012821 0.013308 0.108377 1 -6 AF131215-1 0.686244 1.11131 272 0.040441 780 0.036839 0.037548 0.167387 1 10 AF131215-1 0.09948 23085.8 2.67107 272 0.001838 780 0.000641 0.000951 0.531592 1 8 AF131215-1 0.09948 23085.8 272 0.001838 780 0.000841 0.000951 0.531592 1 8 AF131215-1 0.09948 23085.8 272 0.001838 780 0.000841 0.000951 0.531592 1 8 AF131215-1 0.09948 23085.8 272 0.001838 780 0.001828 0.000951 1.19728 1 12 AF131215-1 0.008381 0.771846 283 0.469965 780 0.534815 0.517404 0.59509 1 0 AF131215-2 0.010287 1.28932 283 0.46298 780 0.00547 0.010287 0.001878 0.978776 283 0.056837 780 0.057692 0.057385 0.010277 1 8 AF131215-2 0.991099 1.03375 283 0.0053 780 0.05128 0.005147 0.002379 1 -4 AF131215-2 0.002887 0.743738 292 0.359589 795 0.430189 0.411224 8.87765 1 0 AF131215-2 0.002887 0.743738 292 0.359589 795 0.430189 0.411224 8.87765 1 0 AF131215-4 0.00287 0.48216 20 0.00028 1.4211 0.00028 1.4211 0.00028 1.4211 0.000287 0.48216 20 0.00028 0.08493 795 0.081132 0.077737 0.975234 1 12 AF131215-4 0.826764 0.88546 22 0.025685 795 0.025685 0.028519 0.238476 1 8 AF131215-4 0.53387 0.543741 0.902588 795 0.036148 0.00381 0.00625 292 0.013699 795 0.003774 0.0046 0.81323 1 18 AF131215-4 0.553387 0.543741 292 0.00712 796 0.00374 0.0046 0.81323 1 18 AF131215-4 0.553387 0.543741 292 0.00712 796 0.00374 0.0046 0.81323 1 18 AF131215-4 0.428866 1.17E-11 292 7.34E-15 795 0.00374 0.0046 0.82589 1 1 4 AF131215-4 0.428866 1.17E-11 292 7.34E-15 795 0.00374 0.0046 0.81523 1 18 AF131215-4 0.428866 1.17E-11 292 7.34E-15 796 0.00374 0.0046 0.81523 1 18 AF131215-4 0.428866 1.17E-11 292 7.34E-15 796 0.00374 0.0046 0.81523 1 18 AF131215-4 0.428866 1.17E-11 292 7.34E-15 796 0.00374 0.0046 0.81523 1 18 AF131215-4 0.428866 1.17E-11 292 7.34E-15 796 0.00374 0.0046 0.81523 1 18 AF131215-4 0.428866 1.17E-11 292 7.34E-15 796 0.00374 0.0046 0.81523 1 18 AF131215-4 0.428676 1 1.2284 2 10.075601 801 0.00823 0.00383 1 1 4 AF188029-1 0.438686 0.38769 0.38769 0.38769 0.38769 0.38769 0.38769 0.38769 0.38769 0.38769 0.38769	0.345895	1.24806	272	0.051471	780	0.041667	0.044202				
0.682444 1.11131 272 0.040441 780 0.038639 0.037548 0.167387 1 10 AF131215-1 0.08639											
0.465938 2.87107 272 0.001838 780 0.000841 0.000951 0.534592 1 6 AFT31215-1 0.099946 2.2085.8 272 0.001838 780 0.001282 0.000951 1.19728 1 12 AF131215-1 0.008381 1.288-11 272 1.65E-14 780 0.00041 0.417215 1 12 AF131215-1 0.010287 1.28932 2.83 0.469895 780 0.534615 0.517404 8.95029 1 0 AF131215-2 0.910981 1.38776 283 0.0653780 0.005128 0.00141 0.417215 6.68444 1 4 AF131215-2 0.981099 1.03375 283 0.0053 780 0.005128 0.001277 1 -8 AF131215-2 0.202303 2.76653 283 0.0053 780 0.001628 0.00227 1.48475 1 -8 AF131215-2 0.2020876 0.256583 795 0.02368											
0.273868 1.28E-11 272 1.68E-14 780 0.01282 0.000961 1.19728 1 1 2 AF131215-1 0.008381 0.771848 283 0.4698985 780 0.400841 0.417215 6.68444 1 4 AF131215-2 0.910287 1.28932 283 0.462898 780 0.400841 0.417215 6.68444 1 4 AF131215-2 0.981098 1.09375 283 0.0053 780 0.005128 0.005174 0.002379 1 4 AF131215-2 0.223033 2.76653 283 0.0053 780 0.005189 0.011727 1 4 AF131215-2 0.002887 1.4211 292 0.523973 795 0.438478 0.459982 1.3134 1 4 AF131215-4 0.23376 0.832763 292 0.058489 795 0.081132 0.077737 0.975234 1 2 AF131215-4 0.23767 1.5227 292 0.073699 <td></td> <td></td> <td></td> <td>0.001838</td> <td></td> <td>0,000641</td> <td>0.000951</td> <td>0.531592</td> <td>1</td> <td>6</td> <td>AF131215-1</td>				0.001838		0,000641	0.000951	0.531592	1	6	AF131215-1
0.008381 O.771846 283 0.469965 780 0.534616 0.817404 8,95029 1 0 AF131215-2 0.010287 1.28932 283 0.462898 780 0.40641 0.417215 6,68444 1 4 AF131215-2 0.919253 0.978776 283 0.056537 780 0.057892 0.057385 0.001277 1 8 AF131215-2 0.961099 1.09375 283 0.0053 780 0.0053 780 0.00282 1.48475 1 -4 AF131215-2 0.02280 3.27653 283 0.0053 780 0.00589 795 0.430489 0.411224 8.87765 1 0 AF131215-2 0.00028 1.4211 292 0.523973 795 0.438478 0.459982 13.134 1 14 AF131215-4 0.323378 0.832763 282 0.068493 795 0.08132 0.077777 0.975234 1 12 AF131215-4 0.80941 0.80941 0.90625 292 0.013699 795 0.013699 0.028619 0.228619 0.228619 0.238476 1 8 AF131215-4 0.38764 0.86548 292 0.006849 795 0.003474 0.0046 0.81323 1 18 AF131215-4 AF131215-4 0.85735 0.543741 292 0.007712 796 0.003145 0.00276 0.00348 0.176479 0.058234 1 16 AF131215-4 AF131215-4 0.25866 0.003474 0.0046 0.81323 1 18 AF131215-4 AF131215-4 0.549529 0.12887 0.12887 0.1888 0.1075601 801 0.002628 0.00048 0.1888											
0.010267 1.28932 283 0.4622898 780 0.057692 0.057895 0.057692 0.057385 0.012277 1 8 AF131215-2 0.981099 1.03375 283 0.0053 780 0.005128 0.005174 0.002379 1 -4 AF131215-2 0.023807 2.76553 283 0.0053 780 0.001923 0.002822 1.48475 1 -8 AF131215-2 0.002807 1.4211 292 0.523973 795 0.438478 0.459982 13.134 1 14 AF131215-4 0.02387 0.852763 292 0.028685 795 0.0228519 0.238475 1 12 AF131215-4 0.826764 0.86646 292 0.0256685 795 0.02956 0.022519 0.238475 1 8 AF131215-4 0.837167 1.8207 292 0.006849 795 0.00374 0.0048 0.81323 1 18 AF131215-4 0.533557 0.5											
0.981099 1.03375 283 0.0053 780 0.005128 0.005174 0.002379 1 -4 AF131215-2 0.023033 2.76553 283 0.0053 780 0.001923 0.002822 1.48475 1 -8 AF131215-2 0.002897 0.743738 292 0.359589 795 0.430489 0.411224 8.847765 1 0 AF131215-4 0.002807 1.4211 292 0.523973 795 0.436478 0.459982 13.134 1 14 AF131215-4 0.828764 0.86546 292 0.025685 795 0.028579 0.2286475 1 8 AF131215-4 0.80931 0.90625 292 0.016899 795 0.028791 0.058234 1 16 AF131215-4 0.53387 0.543741 292 0.00647 290 0.007121 796 0.003746 0.00276 0.351338 1 10 AF131215-4 0.4278978 1.2284 291 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AF131215-2</td>											AF131215-2
0.223033 2,76653 283 0.0053 780 0.001283 0.002282 1.48475 1 -8 AF131215-2 0.002887 0.743738 292 0.359589 795 0.430189 0.411224 8.87765 1 0 AF131215-4 0.000287 1.4211 292 0.523973 795 0.436478 0.459982 13.134 1 14 AF131215-4 0.825764 0.82568 292 0.025685 795 0.02956 0.028519 0.0558234 1 12 AF131215-4 0.80931 0.90625 292 0.013669 795 0.014719 0.058234 1 16 AF131215-4 0.863875 0.543741 292 0.001742 796 0.003145 0.00276 0.351338 1 10 AF131215-4 0.428886 1.17E-11 292 7.34E-15 795 0.008242 0.053931 1.47207 1 -6 AF188029-1 0.249876 1.22244 291 0.07									•		
0.00028 1.4211 292 0.523973 795 0.436478 0.459982 13.134 1 14 AF131215-4 0.323378 0.832763 292 0.068493 795 0.081132 0.077737 0.975234 1 12 AF131215-4 0.602676 0.86546 292 0.013699 796 0.016094 0.014719 0.058234 1 16 AF131215-4 0.807167 1.8207 292 0.006849 795 0.003774 0.0064 0.81323 1 18 AF131215-4 0.553357 0.543741 292 0.001712 796 0.003145 0.00276 0.353138 1 0.4713215-4 0.553357 0.543741 292 7.34E-16 795 0.006242 0.055834 1 1 AF131215-4 0.428886 1.17E-11 292 7.34E-16 795 0.006242 0.055834 1.17207 -6 AF188029-1 0.549529 0.941483 291 0.075801 801	0.223033	2.76553	283								
0.323376 0.832763 292 0.068493 795 0.081132 0.077737 0.975234 1 12 AF131215-4 0.626764 0.868546 292 0.025665 795 0.02956 0.028619 0.238475 1 8 AF131215-4 0.80931 0.90625 292 0.016899 795 0.016904 0.014719 0.058234 1 16 AF131215-4 0.53337 0.543741 292 0.001712 795 0.003774 0.0062 0.351338 1 10 AF131215-4 0.428866 1.17E-11 292 7.34E-16 795 0.000829 0.00046 0.825839 1 4 AF131215-4 0.278976 1.2284 291 0.075601 801 0.062422 0.065934 1.17207 1 -6 AF188029-1 0.549532 0.940483 291 0.075601 801 0.082429 0.058934 1.17207 1 -6 AF188029-1 0.63296 0.941483 <									-		
0.826764 0.86546 292 0.025685 795 0.02956 0.028519 0.238475 1 8 AF131215-4 0.80931 0.90625 292 0.013699 795 0.016994 0.014719 0.058234 1 18 AF131215-4 0.367167 1.8207 292 0.006849 795 0.00374 0.00046 0.81323 1 18 AF131215-4 0.553357 0.543741 292 0.001712 795 0.000829 0.00046 0.825838 1 4 AF131215-4 0.549532 0.940847 291 0.075601 801 0.062422 0.065934 1.17207 -6 AF188029-1 0.549532 0.940847 291 0.3333333 801 0.347066 0.343407 0.358156 1 0 AF188029-1 0.549532 0.941483 291 0.175258 801 0.202477 0.207418 0.987521 -4 AF188029-1 0.693252 0.897679 291 0.0309928 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
0.367167 1.8207 292 0.006849 795 0.003774 0.0046 0.81323 1 18 AF131215-4 0.553357 0.543741 292 0.001712 795 0.003145 0.00276 0.35138 1 10 AF131215-4 0.428886 1.17E-11 292 7.34E-16 795 0.00022 0.0046 0.625839 1 4 AF131215-4 0.276978 1.2284 291 0.075601 801 0.062422 0.065934 1.17207 1 -6 AF188029-1 0.63298 0.941483 291 0.175258 801 0.184145 0.181777 0.228069 1 -8 AF188029-1 0.63296 1.12325 291 0.221649 801 0.22247 0.207418 0.967521 1 -4 AF188029-1 0.693252 0.897679 291 0.024055 801 0.029338 0.02793 0.452608 1 -12 AF188029-1 0.501099 0.815477 2				0.025685	795	0.02956	0.028519				
0.553357 0.543741 292 0.001712 795 0.003145 0.00276 0.351338 1 10 AF131215-4 0.428886 1.17E-11 292 7.34E-15 795 0.00048 0.625839 1 4 AF131215-4 0.278978 1.2284 291 0.075601 801 0.082422 0.058938 1 4 AF138029-1 0.649532 0.940647 291 0.333333 801 0.347066 0.343407 0.358166 1 0 AF188029-1 0.63298 0.941483 291 0.175258 801 0.184145 0.181777 0.222069 1 -8 AF188029-1 0.593252 0.897679 291 0.030928 801 0.034329 0.055588 1 2 AF188029-1 0.501099 0.815477 291 0.020455 801 0.022338 0.02798 0.452608 1 -12 AF188029-1 0.4903539 0.866162 291 0.072165 801 0									-		
0.428886 1.17E-11 292 7.34E-16 .785 0.000629 0.00046 0.625839 1 4 AF131215-4 0.278978 1.2284 291 0.075601 801 0.062422 0.065934 1.17207 1 -6 AF188029-1 0.549532 0.940647 291 0.333333 801 0.347066 0.343407 0.358166 1 0 AF188029-1 0.63298 0.941483 291 0.175258 801 0.184145 0.181777 0.228069 1 -8 AF188029-1 0.593252 0.897679 291 0.030928 801 0.03432 0.035558 1 2 AF188029-1 0.501099 0.815477 291 0.024055 801 0.022338 0.02793 0.452608 1 -12 AF188029-1 0.430539 0.866162 291 0.072165 801 0.082397 0.07967 0.62137 1 -2 AF188029-1 0.4305616 1.25018 291 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
0.549532 0.940647 291 0.333333 801 0.347066 0.343407 0.358156 1 0 AF188029-1 0.63298 0.941483 291 0.175258 801 0.184145 0.181777 0.228069 1 -8 AF188029-1 0.325299 1.12325 291 0.221649 801 0.202247 0.207418 0.967521 1 -4 AF188029-1 0.693252 0.897679 291 0.030928 801 0.024332 0.034325 0.155588 1 2 AF188029-1 0.501099 0.815477 291 0.024055 801 0.02838 0.02793 0.452608 1 -12 AF188029-1 0.430539 0.866162 291 0.072165 801 0.082397 0.07967 0.62137 1 -2 AF188029-1 0.431056 4.83E-13 291 3.02E-16 801 0.004689 0.0619977 1 6 AF188029-1 0.841551 1.01992 284									1	4	AF131215-4
0.63298 0.941483 291 0.175258 801 0.184145 0.181777 0.222069 1 -8 AF188029-1 0.325299 1.12325 291 0.221649 801 0.202247 0.207418 0.867521 1 -4 AF188029-1 0.693252 0.897679 291 0.030928 801 0.034332 0.033425 0.155588 1 2 AF188029-1 0.501099 0.815477 291 0.024055 801 0.028338 0.02783 0.452608 1 -12 AF188029-1 0.430539 0.866162 291 0.072165 801 0.082397 0.07967 0.62137 1 -2 AF188029-1 0.431056 4.83E-13 291 0.060138 801 0.048689 0.05174 1.10663 1 -10 AF188029-1 0.431056 4.83E-13 291 3.02E-16 801 0.000624 0.004269 0.619977 1 6 AF188029-1 0.841551 1.01992											
0.325299 1.12325 291 0.221649 801 0.202247 0.207418 0.867521 1 -4 AF188029-1 0.693252 0.897679 291 0.030928 801 0.034332 0.033425 0.155588 1 2 AF188029-1 0.501099 0.815477 291 0.024055 801 0.028338 0.02793 0.452608 1 -12 AF188029-1 0.430539 0.866162 291 0.072165 801 0.082397 0.07967 0.62137 1 -2 AF188029-1 0.431056 4.83E-13 291 3.02E-16 801 0.000624 0.004868 0.619977 1 6 AF188029-1 0.431056 4.83E-13 291 3.02E-16 801 0.000624 0.0048965 0.619977 1 6 AF188029-1 0.481051 1.01992 284 0.429577 804 0.424751 0.426011 0.039984 1 0 AF188029-10 0.192955 0.737804		0.941483									
0.501099 0.815477 291 0.024055 801 0.029338 0.02793 0.452608 1 -12 AF188029-1 0.430539 0.666162 291 0.072165 801 0.082397 0.07667 0.62137 1 -2 AF188029-1 0.292817 1.25018 291 0.060138 801 0.048689 0.05174 1.10863 1 -10 AF188029-1 0.431056 4.83E-13 291 3.02E-16 801 0.00624 0.000458 0.619977 1 6 AF188029-1 0.66378 0.784972 291 0.008873 801 0.008739 0.008242 0.188965 1 4 AF188029-1 0.841551 1.01992 284 0.429577 804 0.42751 0.4266011 0.039964 1 0 AF188029-10 0.490415 0.93353 284 0.390845 804 0.40738 0.430303 0.475615 1 2 AF188029-10 0.192955 0.737804											AF188029-1
0.430539 0.866162 291 0.072165 801 0.02337 0.07867 0.62137 1 -2 AF188029-1 0.292817 1.25018 291 0.060138 801 0.048889 0.05174 1.10663 1 -10 AF188029-1 0.431056 4.83E-13 291 3.02E-16 801 0.000624 0.0619977 1 6 AF188029-1 0.66378 0.784972 291 0.006873 801 0.008242 0.188965 1 4 AF188029-1 0.4841551 1.01992 284 0.429577 804 0.424751 0.426011 0.039964 1 0 AF188029-10 0.490415 0.93353 284 0.390845 804 0.407338 0.403033 0.475615 1 2 AF188029-10 0.192955 0.737804 284 0.040493 804 0.054105 0.050552 1.89491 1 8 AF188029-10 0.4223572 1.21229 284 0.0404014											
0.491056 4.83E-13 291 3.02E-16 801 0.000624 0.000458 0.619977 1 6 AF188029-1 0.68378 0.784972 291 0.008873 801 0.008739 0.008242 0.188965 1 4 AF188029-1 0.841551 1.01992 284 0.429577 804 0.424751 0.426011 0.039964 1 0 AF188029-10 0.490415 0.93353 284 0.390845 804 0.40738 0.403033 0.475615 1 2 AF188029-10 0.192955 0.737804 284 0.040493 804 0.054105 0.050552 1.89491 1 8 AF188029-10 0.275572 1.21229 284 0.049049 804 0.075249 0.079044 1.1888 1 4 AF188029-10 0.442342 1.20876 284 0.044014 804 0.036892 0.038603 0.5902 1 -2 AF188029-12 0.436617 1.50E-13	0.430539	0.866162	291	0.072165	801	0.082397	0.07967				
0.66378 0.784972 291 0.008873 801 0.008739 0.008242 0.188965 1 4 AF188029-1 0.841551 1.01992 284 0.429577 804 0.424751 0.426011 0.039964 1 0 AF188029-10 0.490415 0.93353 284 0.390845 804 0.407338 0.430335 0.475615 1 2 AF188029-10 0.192955 0.737804 284 0.040493 804 0.054105 0.050552 1.89491 1 8 AF188029-10 0.275572 1.21229 284 0.089789 804 0.075249 0.079044 1.1888 1 4 AF188029-10 0.423423 1.20876 284 0.044014 804 0.036892 0.038603 0.5902 1 -2 AF188029-10 0.110611 4.26372 284 0.005282 804 0.001244 0.002298 2.64547 1 -4 AF188029-12 0.436617 1.50E-13											
0.841551 1.01992 284 0.429577 804 0.424751 0.426011 0.039964 1 0 AF188029-10 0.490415 0.93355 284 0.390845 804 0.407338 0.403033 0.475615 1 2 AF188029-10 0.192955 0.737804 284 0.040493 804 0.054105 0.050552 1.89491 1 8 AF188029-10 0.275572 1.21229 284 0.089769 804 0.075249 0.076044 1.1888 4 AF188029-10 0.442342 1.20876 284 0.044014 804 0.038692 0.038603 0.5902 1 -2 AF188029-10 0.110811 4.28372 284 0.005282 804 0.001244 0.002298 2.64547 1 -4 AF188029-10 0.436617 1.50E-13 284 9.32E-17 804 0.000622 0.00046 0.605157 1 6 AF188029-12 0.6778161 0.947682 286											
0.192955 0.737804 284 0.040493 804 0.054105 0.050552 1.69491 1 8 AF188029-10 0.275572 1.21229 284 0.089789 804 0.075249 0.079044 1.1888 1 4 AF188029-10 0.442342 1.20876 284 0.044014 804 0.036892 0.038603 0.5902 1 -2 AF188029-10 0.110611 4.26372 284 0.005282 804 0.001244 0.002298 2.64547 1 -4 AF188029-10 0.436617 1.50E-13 284 9.32E-17 804 0.000622 0.00046 0.605157 1 6 AF188029-10 0.678161 0.947682 286 0.167832 795 0.175472 0.173451 0.172203 1 0 AF188029-12 0.842697 1.01971 286 0.568434 795 0.561635 0.562905 0.03938 1 -12 AF188029-12 0.521834 1.08748		1.01992	284	0.429577	804	0.424751	0.426011	0.039964	1	0	AF188029-10
0.275572 1.21229 284 0.089789 804 0.075249 0.079044 1.1888 1 4 AF188029-10 0.442342 1.20876 284 0.044014 804 0.036892 0.038693 0.5902 1 -2 AF188029-10 0.110811 4.26372 284 0.005282 804 0.001244 0.002289 2.64547 1 -4 AF188029-10 0.436617 1.50E-13 284 9.32E-17 804 0.000622 0.00046 0.605167 1 6 AF188029-10 0.678161 0.947682 286 0.167832 795 0.175472 0.173451 0.172203 1 0 AF188029-12 0.842697 1.01971 286 0.566434 795 0.561635 0.562905 0.03938 1 -1 AF188029-12 0.521834 1.08748 286 0.171329 795 0.158748 0.162812 0.410268 1 -4 AF188029-12 0.521834 1.08748											
0.442342 1.20876 284 0.044014 804 0.038692 0.038803 0.5902 1 -2 AF188028-10 0.110811 4.28972 284 0.005282 804 0.001244 0.002298 2.64647 1 -4 AF188028-10 0.436617 1.50E-13 284 9.32E-17 804 0.000622 0.00046 0.605157 1 6 AF188028-10 0.678161 0.947682 286 0.187832 795 0.175472 0.173451 0.172203 1 0 AF188029-12 0.8242897 1.01971 286 0.568434 795 0.561635 0.562905 0.03938 1 -12 AF188029-12 0.521834 1.087748 286 0.171329 795 0.159748 0.162215 0.410268 1 -4 AF188029-12 0.521834 1.08748 286 0.171329 795 0.159748 0.0037 0.936147 1 12 AF188029-12 0.333271 0.386047	0.275572										
0.436617 1.50E-13 284 9.32E-17 804 0.000622 0.00046 0.605157 1 6 AF188029-10 0.678161 0.947682 286 0.167832 795 0.175472 0.173451 0.172203 1 0 AF188029-12 0.927278 0.983654 286 0.078671 795 0.079874 0.0798569 0.00833 1 4 AF188029-12 0.842697 1.01971 286 0.566434 795 0.581635 0.562905 0.03938 1 -12 AF188029-12 0.521834 1.08748 286 0.171329 795 0.159748 0.162812 0.410268 1 -4 AF188029-12 0.333271 0.398047 286 0.001748 795 0.004403 0.0037 0.936147 1 12 AF188029-12 0.277654 0.644248 286 0.012238 795 0.018868 0.017114 1.17854 1 8 AF188029-12		1.20876	284	0.044014	804	0.036692	0.038603	0.5902	1	-2	AF188029-10
0.678161 0.947682 286 0.167832 795 0.175472 0.173451 0.172203 1 0 AF188029-12 0.927278 0.983654 286 0.078671 795 0.078676 0.078656 0.00833 1 4 AF188029-12 0.842697 1.01971 286 0.566434 795 0.581635 0.562905 0.03938 1 -12 AF188029-12 0.521834 1.08748 286 0.171329 795 0.159748 0.162812 0.410268 1 -4 AF188029-12 0.333271 0.396047 286 0.001748 795 0.018868 0.017114 1.17854 1 8 AF188029-12 0.277654 0.644248 286 0.012238 795 0.018868 0.017114 1.17854 1 8 AF188029-12											
0.927278 0.983654 286 0.078671 795 0.079874 0.079556 0.00833 1 4 AF188029-12 0.842897 1.01971 286 0.568434 795 0.561635 0.562905 0.03938 1 -12 AF188029-12 0.521834 1.08748 286 0.171329 795 0.159748 0.162812 0.410268 1 -4 AF188029-12 0.333271 0.398047 286 0.001748 795 0.018868 0.017114 1.17854 1 8 AF188029-12 0.277654 0.644248 286 0.012238 795 0.018868 0.017114 1.17854 1 8 AF188029-12	0.678161										
0.521834 1.08748 286 0.171329 795 0.159748 0.162812 0.410268 1 -4 AF188029-12 0.333271 0.396047 286 0.001748 795 0.004403 0.0037 0.936147 1 12 AF188029-12 0.277654 0.644248 286 0.012238 795 0.018868 0.017114 1.17854 1 8 AF188029-12			286	0.078671		0.079874	0.079558	0.00833	1	4	AF188029-12
0.333271 0.398047 288 0.001748 795 0.004403 0.0037 0.936147 1 12 AF188029-12 0.277654 0.644248 286 0.012238 795 0.018868 0.017114 1.17854 1 8 AF188029-12											
0.277654 0.644248 286 0.012238 795 0.018868 0.017114 1.17854 1 8 AF188029-12	0.333271	0.396047									
	0.277654	0.644248	286				0.017114				

0.102875		286	0.001748	795	6.13E-0	8 0.00046	3 2.66039	1	-8	AF188029-12
0.155568		287	0.550523	808	0.58467	2 0.5757	3 2.01678	1	ō	AF188029-7
0.140992		287	0.425087	809	0.38998	8 0,39917	9 2.1671	1	-4	AF188029-7
0.891319		287	0.010453	809				1	2	AF 188029-7
0.903051		287	0.008711	809				1	-2	AF188029-7
0.482678		287	0.005228	809				1	4	AF 188029-7
0.118913		287	8.83E-15	809				1	6	AF188029-7
0.094813		192 192	0.528646	449				1	0	AF287957-1
0.007629	1.67173	192	0.315104	449				1	-6	AF287957-1
0.186793 0.984891	0.994856	192	0.03125 0.052083	449				1	4	AF287957-1
0.425166		192	0.052063	448				1	-4	AF287957-1
0.927059	1.04019	192	0.020833	449 449				1	2	AF287957-1
0.424721	1.4128	192	0.023438	448				1	-2	AF287957-1
0.037716		295	0.023438	867				1	-14	AF287957-1
0.823345	1.02491	295	0.250847	867				1	-12	D8S1130
0.057993		295	0.155932	867				1	4 0	D8S1130
0.034226		295	0.067797	867				i	8	D8S1130 D8S1130
0.761102		295	0.233898	867				i	· -8	D8S1130
0.448628	1.10294	295	0.167797	867				i ·	-4	D8S1130
0.015013	1.73607	295	0.057627	867				i	12	D8S1130
0.257109	0.516182	295	0.005085	867				1	16	D8S1130
0.184815	1.73E-13	295	3.00E-16	867				i	2	D8S1130
0.926708	0.989884	272	0.273897	839				i	ō	D8S1469
0.42014	1.0829	272	0.485294	839	0.465435	0.470297		1	4	D8S1469
0.912414		272	0.147059	839	0.148987	0.148515	0.012099	1	8	D8S1469
0.350505		. 272	0.007353	839			0.871627	1	,12	D8S1469
0.682057	0.911314	272	0.055147	839	0.080191	0.058956	0.191034	1	' з	D8S1469
0.219897		272	0.025735	839				1	-4	D8S1469
0.091711	4.64693	272	0.005515	839			2.84409	1	7	D8S1469
0.146999	0.867007	277	0.436823	845				1	0	D8S1695
0.545903	0.931486	277	0.218412	845				1	8	D8\$1695
0.00817	1.5987	277	0,099278	845				1	. 6	D8S1695
0.255984	1.25084	277	0.072202	845				1	10	D8S1695
0.931404	1.01321 1.1391	277 277	0.117329	845				1	4	D8S1695
0.63463	0.844568	277	0.028881	845				1	12	D8S1695
0.235922	0.337754	277	0.018051 0.001805	845 845				1	2	D8S1695
0.046136	1.36E-16	277	5.65E-19	845				1	14	D8S1695
0.030127	6.13816	277	0.00722	845				1	16	D8S1695
0.45137	5.84E-13	277	3,34E-16	845				1	-4 9	D8S1695 D8S1695
0.227457	0.863872	275	0.218182	643	0.244168			1	34	D8S1721
0,509906	1.17748	275	0.047273	643	0.040436			ì	36	D8S1721
0.084607	1.19418	275	0,450909	643	0.407465			1	0	D8S1721
D.157396	0.796563	275	0.103636	643	0,12675			i	2	D8S1721
0.520753	1.11465	275	0.105455	643	0.095645			i	4	D8S1721
0.871348	0,934318	275	0.014546	643	0.015552		0.026227	1	8	D8S1721
0.63747	1.12791	275	0.043636	643	0.03888	0.040305		1	24	D8S1721
0.309831	0.581501	275	0.007273	643	0.012442	0.010893	1.0314	1	32	D8S1721
0.128123	0.357385	275	0,003636	643	0.010109	0.00817	2.3151	1	38	D8S1721
0.058961	1.53E-11	275	5,96E-14	643	0.003888	0.002723	3.56636	1	28	D8S1721
0.553668	2.34062	275	0.001818	643	0.000778	0.001089	0.350787	1	8	D8S1721
0.553668	2.34062	275	0.001818	643	0.000778	0.001089	0.350787	1	-4	D8\$1721
0.825536	0.778996	275	0.001818	643	0.002333	0.002179	0.04859	1	30	D8S1721
0.398669	9.73E-12	275	7.57E-15	643	0.000778	0.000545	0.712338	1	-2	D8S1721
0.652897	0.957121	298	D.607383	866	0.617783	0.61512	0.202267	1	0	D8S1759
0.102755 0.948028	0.750017 1.02161	298 298	0.07047	866 866	0.091801 0.021363	0.08634	2.66225	-1	2	D8S1759
0.114811	1.34013	. 298	0.021812 0.078859	866	0.021363	0.021478 0.064863	0.004249	1	6	D8S1759
0.140217	1.23237		0.139262		0.116051		2.48672 2.17557	1	4	D8S1759
0.568174	1.12505	298	0.058725	866		0.054124		1	12	D8S1759 D8S1769
0.037947	0.33195	298	0.005034	866		0.012457	4.30741	1	10 14	D8S1759
0.031831	0.180252	298	0.001678	866			4.60758	i	16	D8S1759
0.688492	1.16519	298	0.016779	866				i	8	D8S1759
0.182675	2.05E-13	298	3.56E-16	866			1.77573	i	-2	D8S1759
0.024789	1.31206	170	0.526471		0.458689	0.471904	5.03858	i	ō	D8S1825
0.381925	0.80588	170	0.064708	702	0.07906	0.076262		1	8	D8S1825
0.379413	1.18728	170	0.144118	702		0.129587	0.772604	1	10	D8S1825
0.009957	0.651161	170	0.135294		0.193732		6.64257	1	6	D8S1825
0.486263	0.868572		0.094118		0.108838		0.484786	1	2	D8S1825
0.191246	2.37586		0.011765		0.004986		1.70799	1	-2	D8S1826
0.870918	1.07863		0.017647	702				1	4	D8S1825
0.14054	1.09E-10	170	3.88E-13		0.003561		2.17204	1	-1	D8S1825
0.454299	0.587491		0.005882		0.009972			1	12	D8S1825
0.510105	8.45E-11	170	6.03E-14		0.000712			1	14	D8S1825
0.815552 0.451712	1.02488 1.1091		0.364173	841		0.359817		1	4	D8S265
0.431712 0.786827	1.10578		0.167323	841 841		0.156621		1	0	D8S265
0.760627 0.877551	0.971594	254 254	0.019685 0.07874	841	0.017836			1	6	D8S265
0.402198	0.886147		0.137795	841	0.152794			1	-5	D8S265
	0.937693		0.080709	841	0.182784		0.701744 0.122482	1	2	D8S265
0.364169	1.23268		0.055118	841		0.047489		1	18 12	D8S265 D8S265
			• • •		C 11			•	14	D33200

		- -								
0.99987	0.999971	254	0.088583	841	0.088585		2.65E-08	1	14	D8S265
0.410161	3.31558	254	0.001969	841	0.000595		0.678335	1	-3	D8S265
0.00268	3.61E-12	254	3.69E-14	841	0.010107	0.007763	9.01331	1	16	D8S265
0.693824	0.661534	254	0.001968	841	0.002973	0.00274	0.15519	1	8	D8S265
0.208078	7.07E-13	254	1.26E-15	841	0.001784	0.00137	1.58475	1	10	D8S265
0.10975	6.64428	254	0.003937	841	0.000595	0.00137	2.55782	i	20	D8S265
0.46746	4.34E-11	254	2.58E-14	841	0.000595		0.527974	i	1	D8S265
0.46746	4.34E-11	254	2.58E-14	841	0.000595				-4	D8S265
							0.527974	1		
0.695468	1.08982	142	0.098592	762	0.091207	0.092367	0.15323	1	0	D8S351
0.783305	1.04473	142	0.211268	762	0.204068	0.205199	0.075833	1	18	D8S351
0.316586	1.16569	142	0.242958	762	0.215879	0.220133	1.003	1	2	D8S351
0.72188	0.937773	142	0.147887	762	0.156168		0.126699	1	6	D8S351
0.153706	0.295641	142	0.003521	762	0.011811	0.010509	2.03508	ì	10	D8S351
				-						
0.838089	1.05	142	0.080986	762	0.077428	0.077987	0.041754	1	8	D8S351
0.583333	0.836945	142	0.038732	762	0.045932		0.300878	1	20	D8S351
0.809166	0.940043	142	0.066902	762	0.070888	0.070243	0,058323	1	4	D8S351
0.411157	0.821546	142	0.073944	762	0.088583	0.088283	0.675454	1	16	D8S351
0.756219	1.14178	142	0.024648	762			0.096379	i.	14	D8S351
0.028377	8,33E-12	142	7.72E-14	762	0.009186		4.80504		12	D8S351
								1		
0.798776	0.765774	142	0.003521	762	0.004593		0.086318	1	-2	D8S351
0.286161	2.69504	142	0,007042	762	0.002625	0.003319	1.13769	1	22	D8S351
0.14867	1.17553	220	0.372727	825	0.335758	0.343541	2.08584	1	-6	D8S503
0,656591	0.950426	220	0.322727	825	0.333939	0.331579	0.197691	1	0	D8S503
0.952265	1.00854	220	0.172727	825	0.171515	0,17177	0.003584	i	-2	D8S503
0.599769	1.12497	220	0.063836	825				i	-4	
					0,05697		0.275344			D8S503
0.026073	0.443736	220	0.015909	825	0.035152		4.95115	1	2	D8S503
0.384947	0.806419	220	0.045455	825	0.055758	0.053589	0.754842	1	۰-8	D8S503 ,
0.233489	1.31E-11	220	2.38E-14	825	0.001818	0,001435	1.41948	1	-10	D8S503
0.350082	0.415334	220	0.002273	825	0.005455	0.004785	0.873159	1	4	D8S503
0.788203	1.25115	220	0.004545	825	0.003636		0.07217	i	-12	D8S503
0.013012	0.789193	299	0.528428	876	0.586758	0.571915	6.18748	1	2	D8S516
0.145759	1.18197	299	0.229097	876	0.200913	0.208085	2.11608	1	4	D8S516
0.521718	1.10737	299	0.102007	878	0.093037	0.095319	0.410496	1	0	D8S516
0.239161	1.20127	299	0.110368	876	0.093607	0.097872	1.38553	1	-2	D8S516
0.621542	1.23675	299	0.013378	878	0.010845		0.243707	1	-4	D8S516
0.963144	1.01931	299	0.013378	876	0.013128	0.013192		i	6	D8S516
0.476294	1.95638	299	0.003344	876	0.001712	0.002128	0.507337	1	8	D8S516
0.227243	0,879355	277	0.33213	663	0.361237	0.35286	1.45803	1	6	D8S520
0.566855	1.07197	277	0.229242	663	0.217195	0.220745	0.327973	1	8	D8S520
0.591376	0.822135	277	0.018051	663	0.02187	0.020745	0.288201	1	10	D8S520
0,480274	1,11885	277	0.119134	663	0.107843	0.11117	0.498241	1	Õ	D8S520
0.429167	1.16824	277	0.075812	663	0.065611				-10	D8S520
						•	0.625075	1		
0.867915	0.97239	277	0.099278	663	0.10181	0.101084	0.027658	1	4	D8S520
0.388307	0.530191	277	0.00361	663	0.006787	0.005851	0.744238	1	-12	D8S520
0.529629	1.10847	277	0.115523	663	0.105581	0.108511	0.395104	1	2	D8S520
0.138097	0.365942	277	0.00361	863	0.009804	0.007979	2.19904	1	-2	D8S520
0.389526	2.39855	277	0.00361	663	0.001508	0.002128	0.740422	i	12	D8S520
0.403311	1.61E-12	277	1.22E-15	663	0.000754	0.000532	0.698432	i	9	D8S520
0.559428	1.0591	276	0.541667	840	0.527381	0.530914	0.340696	1	0	D8S542
0.505598	0.932162	276	0.309783	840	0.325	0.321237	0.443167	1	2	D8S542
0.930924	1.01211	276	0.146739	840	0.145238	0.145609	0.007514	1	4	D8S542
0.191511	1.80E-13	276	3.22E-16	840	0.001786	0.001344	1.70595	1	-2	D8S542
0.442247	3.04718	276	0.001812	84D	0.000595	0.000896	0,590446	1	-12	D8S542
0.0859	1.31911	282	0.113475	814	0.088452	0.094891	2.94958			
								1	-8	D8S550
0.618127	1.07712	282	0.125887	814	0.117936	0.119982	0.248509	1	12	D8S550
0.253091	0.881203	282	0.255319	814	0.280098	0.273723	1.30616	1	14	D8S550
0.940441	0.989607	282	0.141844	814	0.14312	0.142792	0.005582	1	-2	D8S550
0.42232	0.755274	282	0.017731	814	0.023342	0.021898	0.643851	1	8	D8\$550
0.373095	1.24145	282	0.046099	814	0.037469	0,03969	0.79333	1	18	D8S550
0.579239	0.897036	282	0.08383	814	0.070839	0.088887	0.307467	i	-8	D8S550
0.912625	0.981032	282	0.085106	814	0.086609	0.086223				
							0.01204	1	16	D8S550
0.295889	0.798208	282	0.049645	814	0.061425	0.058394	1.09263	1	0	D8S550
0.390233	1.17905	282	0.074468	814	0.063882	0.066606	0.738216	1	10	D8\$550
0.020519	8.22E-13	282	4.57E-15	814	0.005528	0.004108	5,36716	1	2	D8S550
0.651301	1.17949	282	0.019504	814	0.016585	0.017336	0.204264	1	20	D8\$550
0.769431	1.44405	282	0.001773	814	0.001229	0.001369	0.085919	i	6	D8S550
0.678264		282		814	0.002457					
	1.44483		0.003548				0.172087	1	22	D8S550
0.769431	1.44405	282	0.001773	814	0.001229	0.001369	0.085919	1	4	D8S550
0.002763	0.633735	112	0.491071	391	0.603581	0.578529	8.95765	1	1	DG00AAHBG
0.002763	1.57795	112	0.508929	391	0.396419	0.421471	8.95765	1	2	DGOOAAHBG
0.185829	0.845927	180	0.666667	725	0.702759	0.69558	1.75197	i	2	DG00AAHBH
0.185629	1.18213	180	0.333333	725	0.297241	0.30442	1.75197	i	1	DGOOAAHBH
0.724399										
	0,95702	179	0.870391	811		0.678283		1	3	DG00AAHBI
0.724399	1.04491	179	0.329609	811		0.321717	0.124317	1	1	DGOOAAHBI
0.145444	1.20675	272	0.226103	531	0.194915	0.205479	2.11939	1	0	DG8S117
0.145444	0.828669	272	0.773897	531	0.805085	0.794521	2.11939	1	9	DG8S117
0.479577	0.889591	292	0.902397	826	0.912228	0.90966	0,499826	i	ŏ	DG8S118
		292		826						
0.479577	1.12411		0.097603		0.087772	0.09034	0.499826	1	5	DG8S118
0.015453	0.77441	269	0.381041	604	0.442881		5.86405	1	0	DG8S127
0.861152	0.972327	269	0.1171	604	0.120033		0.030593	1	6	DG8S127
						0.454494	7.11552			
0,007642	1.31953	269	0.501859	604	0.432947	0.454181	7.11002	1	7	DG8S127
0.007642		269 269	0.501859 7.27E-15	604	0.432947		3.69001	1.	1 2	DG8S127 DG8S127

	$I \cap \cap$
กก	/ソ()

0,421283	3 0.911215	279	0.732975	646	0.750774	4 0 74540	5 0.646734	1	0	DG8S128
0,421283	1.09744	279		646			5 0.646734	i	4	DG8S128
0.214912	1.13351	281	0.402135	772	2 0.372409			1	4	DG8S130
0.081276	0.842067	281	0.494682	772	2 0.53756			i	ó	DG8S130
0.091371		281		772	2 0.034974	4 0.03941	1 2,85005	1	-16	DG8S130
0.784232		281		772				. 1	-4	DG8S130
0.588315		281		772				1	8	DG8S130
0.913407		281		772				1	-12	DG8S130
0.799132		281		772				1	12,	DG8S130
0.938767		281		772				1	-8	DG8S130
0.78588 0.832027		289		739				1	0	DG8S134
0.632021		289 289		739 739				1	4	DG8S134
0.688497		284		779				1	2 0	DG8S134 DG8S136
0.357664		284	0.088028	779				1	-6	DG8S138
0,926336		284		779				1	21	DG8S138
0.012974		284	0.03169	779				i	-4	DG8S136
0.670458		284	0.06338	779				i	4	DG8S136
0.848922	1.04525	284	0.047535	779	0.045571	0.046096		1	6	DG8S136
0.809069	0.931853	284	0.028169	779	0.030167	0.029633		1	-2	DG8S136
0.737588		284	0:015845	779			0.112258	1	8	. DG8S136
0.077685		284	3.81E-14	779				1	-8	DG8S138
0.8001		284	0.001761	779				1	10	DG8S136
0.148698		284	0.003521	779				1	-10	DG8S138
0.937653		284	0.001761	779				1	-14	DG8\$136
0.707427 0.420328		73 73	0.308219	234 234				1	-2	DG8S137
0.420520		73 73	0.09589 0.047945	234				1	' 2	DG8S137
0.48255		73 73	0.075343	234				1	10 4	DG8S137 DG8S137
0.534482		73	0.123288	234				1	6	DG8S137
0.756498		73	0.10274	234	0.094017			i	-4	DG85137
0.50781	0.8569	73	0.19863	234				i	0	DG8S137
0.786803	1.20629	73	0.020548	234				i	12	DG8S137
0.707744	1.60689	73	0.006849	234	0.004274	0.004886		1	18	DG8S137
0,46096		73	2,89E-13	234	0.002137	0.001629	0.543562	1	14	DG8S137
0.13978	1.65E-11	73	1.42E-13	234			2.18038	1	8	DG8S137
0.016338	27512.1	73	0.013697	234	5.05E-07			1	16	DG8S137
0.089808	32034.3	73	0.006849	234	2.15E-07			1	20	DG8S137
0.839671	1.03011	280	0.132143	761	0.128778			1	-1	DG8S138
0.870826 0.428537	0.976481 2.32E-12	280 280	0.867857 1.52E-15	761	0,870565 0.000657			1	0	DG8S138
0.159463	1.1814	263	0,437262	761 585	0.400855			1	1	DG8\$138
0.147986	0.857452	263	0.560837	585	0.400855			1 1	0 2	DG8S147
0.576578	2.22687	263	0.001901	585	0.000855			1	1	DG8S147 DG8S147
0.259213	0.794127	290	0,056897	694	0.070605		1.27296	i	-4	DG8S148
0.545954	0.935049	290	0.265517	694	0.278818			i	2	DG8S148
0.014561	0.743933	290	0.191379	694	0.241354	0.226828	5,96886	i	-2	DG8S148
0.007095	1.31082	290	0.441378	694	0.376081	0.395325	7.24886	1	ō	DG8S148
0.48892	1.2043	290	0.037931	694	0.0317	0.033537	0.478901	1	4	DG8S148
0.001752	23219.6	290	0.006896	694	2.99E-07	0.002033	9.79264	1	6	DG8S148
0.237148	2.65E-11	290	3.83E-14	694	0.001441	0.001016	1.39747	1	-17	DG8S148
0.038856	1.30825	159	0.493711	473	0.427061	0.443829	4.26715	1	-2	DG8S153
0.213023 0.986876	. 1.26575	159	0.147799	473	0.120507	0.127373	1.55076	1	0	DG8S153
0.108112	0.991482 0.569861	159 159	0.015723 0.028302	473 473	0.015856 0.048626	0.015823	0.000271	1	-6	DG8S153
0.00318	0.511599	159	0.020302	473	0.048626	0.043513 0.112342	2.5816	1	2	DG8S153
0.458379	1.32	159	0.034591	473	0.026427	0.028481	8.70122 0.549849	1	6 14	DG8S153 DG8S153
0.892697	1.0255	159	0.141509	473	0.138478	0.139241	0.018196	i	8	DG8S153
0.088491	0.580456	159	0.034591	473	0.05814	0.052215	2.90161	i	10	DG8S153
0,185722	0.543722	159	0.015723	473		0.025317	1.75123	1	4	DG8S153
0.090749	3.00638	159	0.015723	473		0.007911	2.86103	1	12	DG8S153
0.784783	0.742904	159	0.003145	473	0.004228	0.003956	0.074579	1	-4	DG8S153
0.361037	1.12242	208	0,336538	453	0.311258			1	4	DG8S155
0.468219	0.858947	208	0.086539	453	0.099338	0.09531		1	8	DG8S155
0.66846	0.91504B	208	0.086539	453		0.091528	0.183409	1	2	DG8S155
0.780972	0.96223	208	0.237981	453	0.245033			1	6	DG8S155
0.201895 0.560704	1.53565 0.889464	208	0.038462	453	0.025386		1.62861	1	14	DG8S155
0.99073	1.00271	208 208	0.091346 0.069712	453		0.098336		1	0	DG8S155
0.88073	0.75398	208	0.033654	453 453		0.069592 0.040847		1	10 12	DG8S155
0.384561	2.88E-10	208	3.18E-13			0.040847	0.829366	1	12 -16	DG8S155 DG8S155
0.070728	3.88179		0.012019	453	0.003311		3.26609	1	-10 -10	DG8S155
0.384561	2.88E-10	208	3.18E-13	453		0,000756		1	-10 -2	DG8S155
0,686813	1.4541	208	0.004808	453	0.003311	0.003782	0.162558	1	-2 16	DG8S155
0,58637	2.18074		0.002404	453	0.001104		0.296049	1	-12	DG8S155
0.252035	1.12465		0.411654	777-	0.383526	0.3907	1.31199	1	6	DG8S156
0.079775	0.838003	266	0.524436	777	0.568211		3.06948	1	ō	DG8S156
0.212713	1.38788		0.043233	777		0.034516	1.55287	1	-6	DG8\$158
).183633	2.39E-11	268	4.62E-14	. 777	0.001931		1.76798	1	3	DG8S156
0.387853	1.40541		0.020677	777		0.016299		1	9 .	DG8\$158
0.80929	0.946461	240	0.9375	558 550		0.938698	0.058246	1	.0	DG8S159
).709136	1.09786	240	0.052083			0.048995	U.139141	1	-2	DG8S159
					C 11	r				

67/90

0.296272	0.531689	240	0.00625	556	0.011691	0,01005	1.0909	1	2	DG8S159
					2.30E-07					
0.028441	18155.3	240		556	_			1	-6	DG8S159
0.003748	0.744604	284	0.353873	735	0.42381		8.4018	1	0	DG8S161
0,003748	1.343	284	0.646127	735	0.57619	0.595682	8.4018	1	2	DG8S161
0.05598	1.20367	288	0.515625	815	0.489325	0.481414		1	0	DG8S163
0.05598	0.830793	288	0.484375	815					3	DG8S163
								1		
0.523898	0.934417	276	0.315217	759	0.33004	0.326087	0.406213	1	0	DG8S170
0.660506	1.04706	276	0.661232	759	0.650856	0.653623	0.192909	1	2	DG8S170
0.4587	1.32163	276	0.019928	759	0.015152			1	-4	DG8S170
0.798541	1.37568	276	0.001812	759	0.001318			1	-19	DG8S170
0.265216	1.68E-11	276	2.22E-14	759	0.001318	0.000966	1.24132	1	-8	DG8S170
0.798541	1.37568	276		759	0.001318			1	-2	DG8S170
0.277942	0.895153	284	0.408451	843	0.435459			1	14	DG8S177
0,865528	0.904965	284	0.007042	643	0.007778	0.007551	0.028677	1	20	DG8S177
0.731981	0.960051	284	0.230634	643	0.237947	0.235707	0.1173	1	12	DG8S177
0.407745	1.14793	284	0.107394	643	0.094868			1	18	DG8S177
0.419576	2.26855	284	0.003521	643	0.001555			1	2	DG8S177
0.822181	1.048	284	0.06338	643	0.060653	0.061489	0.050508	1	0	DG8S177
0.962421	1.00717	284	0.126761	843	0.125972	0.126214	0.00222	1.	16	DG8S177
0.09498	1.50315	284	0.052817	643	0.03577			1	10	DG8S177
0.085977	0.837931	271	0.48155	622	0,525723	0.512318	2.94814	1	0	DG8S179
0.085977	1.19342	271	0.51845	622	0.474276	0.487682	2.94814	1	7	DG8S179
0.698546	0.956803	285	0.264912	825	0.2736	0.270879	0.149989	1	10	DG8S181
	0.929813		0.250877		0.2648				12	DG8S181
0.529296		285		625				1		
0.549125	0.908757	285	0.108772	625	0.1184	0.115385	0.358888	1	4	DG8S181
0,556533	1.107	285	0.098246	625	0.0898	0.092308	0.345743	1	0	DG8S181
0.802839	1.03721	285	0.140351	625	0.136	0.137363	0.062338	1	' 8	DG8S181
										DG8S181
0.311381	1.47192	285	0.021053	625	0.0144			1	18	
0.476286	1.22628	285	0.035088	625	0.0288	0.030769	0.507356	1	18	DG8S181
0.638487	1.10319	285	0.064912	625	0.0592	0.060989	0.220726	1	14	DG8S181
0.271618	2.20142	285	0.007018	625	0.0032			1	-2	DG8S181
0.150962	0.272845	285	0.001754	625	0.0064	0.004945		1	2	DG8S181
0.720999	1.25492	285	0.007018	625	0,0058	0.006044	0.127537	1	6	DG8S181
0.090162	0.738911	239	0.895397	818	0.920538	0.914853	2.87149	1	0	DG8S182
		239			0.079462			i i	-3	DG8S182
0.090162	1.35334		0.104603	818						
0.932953	1.01025	266	0.763158	641	0.76131	0.761852		1	0	DG8S188
0.932953	0.989858	266	0.236842	641	0.23869	0.238148	0.007078	1	-1	DG8S188
0.50016	0.918664	164	0.533537	568	0.554577	0.549863	0.454596	1	0	DG8S192
0.694277	0.93582	164	0.161585	568	0.170775			1	2	DG8S192
0.565236	1.24438	164	0.030488	568	0.024648	0.025958	0.330719	1	16	DG8S192
0.04181	1.47675	184	0.140244	568	0.099472	0.108607	4.14289	1	-2	DG8\$192
0,458915	0.82142	164	0.054878	568	0.066021	0.063525		1	4	DG8S192
0.334129	2.08801	164	0.009146	568	0.004401	0.005464	0.93283	1	8	DG8S192
0,333204	0.780091	164	0.057927	568	-0,073063	0.069672	0.936407	1	12	DG8S192
0.664752	1.73395	164	0.003049	568	0.001761	0.002049	0.187803	1	-4	DG8S192
		164	4.78E-17	568	0.003521	0.002732	2.03243	i	10	DG8S192
0.153974	1.35E-14									
0.070388	5.23379	164	0.009146	¹ 56B	0.001761	0.003415	3.27395	1	14	DG8S192
6.82E-05	0.670285	283	0.535336	730	0.632192	0.605133	15.8592	1	0	DG8S197
0.000124	1.47085	283	0.461131	730	0.367808	0.39388	14.738	1	1	DG8S197
0.023849	25908.7	283	0.003533	730	1.37E-07		5.1056	1	2	DG8S197
0.200705	1.1383	275	0.534546	677	0,502216	0.511555	1.63724	1	0	DG8S201
0.104707	0.837728	275	0.296364	677	0,334564	0.323529	2,63234	1	4	DG8S201
0.974149	0.995157	275	0.130909	677	0.131462	0.131303	0.00105	1	-2	DG8S201
0.486146	1.21031	275	0.038182	677	0.031758	0.033613	0.485045	i	2	DG85201
0.587808	1.16354	197	0.959391	735	0.953061	0.954399	0.29378	1	0	DG8S212
0.587808	0.859444	197	0.040609	735	0.046939	0.045601	0.29378	1	2	DG8S212
0.109145	1.26268	149	0.697987	392	0.646684	0.660813	2.56656	1	4	DG8S215
0.127499	0.800874	149	0.302013	392	0.350765	0.337338	2.3227	i	ò	DG8S215
0.256041	2.21E-11	149	5.64E-14	392	0.002551	0.001848	1.29004	1	2	DG88215
0.18799	1.18051	246	0.400406	292	0.361301	0.379182	1.7333	1	0	DG8S221
0.928563	1.01236	246	0.276423	292	0,273973	0.275093	0.008038	1	5	DG8\$221
0.035493	0.69336	246	0.123984	292	0.169521	0.148699	4.42129	1	-2	DG8\$221
		246	0.048781	292		0.051115	0.102139	i	7	DG8S221
0.749277	0.914805									
0.595972	1.10172	246	0.134146	292	0.123288		0.281114	1	4	DG8\$221
0.38024	0.590165	248	0.00813	292	0.013699	0.011152	0.769925	1	1	DG8\$221
0.464631	2,37959	246	0.004065	292	0.001712	0.002788	0.534715	1	8	DG8S221
0.863722		246	0.004065	292	0.003425	0.003717		1	-1	DG85221
	1.18775						0.02946			
0.132044	0.8478	266	0.295113	726	0,330579	0.321069	2.26831	1	0	DG8S232
0.015593	1.28256	266	0.441729	726	0.381543	0.397681	5.84822	1	2	DG8S232
0,266154	0.847444	266	0.12594	728	0.145317	0.140121	1.23646	. 1	-8	DG8S232
0.475486	1.1364	266	0.092105	726	0.081956	0.084677		1	-4	DG8S232
0.398846	0.787598	266	0.030075	728	0.037879	0.035786	0.711804	1	4	DG8S232
0.343976	0.678096	266	0.013158	728	0.019284	0.017641	0.895557	1	-2	DG8S232
0.486272	2.73258	· 266	0.00188	726	0.000689	0.001008	0.484764	1	-8	DG85232
			4.01E-16							
0.113821	1.45E-13	266		726	0.002755	0.002016	2.50034	1	8	DG85232
0.071301	1.40918	282	0.934397	672	0.90997	0.917191	3.25281	1	0	DG8S238
0.071301	0.70963	282	0,065603	672	0,09003	0.082809	3,25281	1	-8	DG8\$238
0.010364	0.711215	157	0.563694	476	0.644958	0.824803	6.57128	1	4	DG8S242
			0.436308	478		0.375197				
0.010384	1.40604	157			0.355042		6.57128	1	0	DG8S242
0.413669	1.1601	273	0.908425	468	0.895299	0.800135	0.668232	1	0	DG8S245
0.51171	1.15354	273	0.069597	468	0.080897	0.064103	0.430569	1	-4	DG8S245
0.021506	0.472897	273	0.020147	468	0.041667	0.033738	5.28532	1	4	DG8S245
				E-14		CE			-	

0.89892		273 0.001832	468 0.002137 0.002024	0.016134	1	-8	DG8S245
0.80601	1 0.971318	184 0.5625		0.060308	i	0	
0.08776	1 0.74417	184 0.141304	682 0.181085 0.172633	3.33645	i	-19	DG8S249 DG8S249
0.21872	2 1.62861	184 0.027174	682 0.016862 0.019053	1.51274	i	-17	
0.26240	1 0.525638	184 0.008152	682 0.015396 0.013857	1.25605	i		DG85249
0.186759	9 1.27882	184 0.122283	682 0.098241 0.103349	1.743		-21	DG8S249
0.18089	2 0.306994	184 0.002717	682 0.008798 0.007508	1.79028	1	-2	DG8S249
0.27452	5 1.33859	184 0.057065	682 0.043255 0.046189		1	6	DG8S249
0.000877		184 4.06E-16	682 0.016862 0.013279	1.19399	1	2	DG8S249
0.47433		184 0.008152		11.0708	1	-6	DG85249
0.006519				0.511855	1	4	DG8S249
0.067139			682 0.032258 D.039261	7.40092	1	-4	DG85249
0.012747		184 7.38E-15	682 0.005132 0.004042	3.35163	1	-1	DG8S249
0.876085		184 0.005434	682 1.63E-07 0.001155	6.20393	1	-8	DG8S249
		287 0.054007		0.024315	1	-10	DG8\$250
0.059451		287 0.203833	·584 0.244007 0.230769	3.55263	1	-4	DG8S250
0.777552		287 0.134146	584 0.129281 0.130884 (0.079812	1	2	DG8\$250
0.671776		287 0.198606		0.179532	1 .	4	DG8\$250
0.793481		287 0,060976	584 0.064212 0.063146 (0.068535	1	-2	DG8S250
0.937633		287 0.249129		0.006122	á	ō	DG85250
0.280349		287 0.015879	584 0.009418 0.011481	1.2669	i	8	DG8S250
0.056123	3 2.24587	287 0.020906	584 0.009418 0.013203	3.6484	i	-8	DG8S250
0.527266	1.24457	287 0.02439		0.399658	1	6	DG8S250
0.457081	1.36288	287 0.017422).553034	1	-12	
0.478395		287 0.019164).502519			DG8S250
0.519284		287 0.001742			1	-6	DG8S250
0.025242		280 0.576786		0.415316	1	12	DG8S250
0.824495		280 0.048429		5.00719	•	٠ 0	DG8S257
0.053394		280 0.358929		.049181	1	-6	DG8\$257
0.781377				3.73154	1	-2	DG8S257
0.005737				.077021	1	2	DG8S257
0.197364		280 0.008929		7.63113	1	-9	DG8S257
0.783805		251 0,227092		1.68177	1	15	DG8S258
		251 0.543825		.075275	1	18	DG8S258
0.398308		251 0.017928		.713434	1	0	DG8S258
0.27797		251 0.191235		1.17699	1	12	DG8S258
0.248859		251 3.88E-16	637 0.00157 0.001126	1.3297	1	24	DG8S258
0.405954		251 0.013944	637 0.019623 0.018018	0.69062	1	21	DG8S258
0.139196		251 0.005976		2.18682	1	33	DG8S258
0.511547	1.09839	155 0.725806	549 0.70674 0.710938 0.	430901	1	2	DG8S261
0.442146	0.895729	165 0.270968		590707	1	ō	DG8S261
0.081789	28913.2	155 0.003225		3.02898	1	-2	DG8S261
0.917373	1.03676	149 0.036913		010763	i	-4	DG8S262
0.937128	0.989756	149 0.526846		006222	i	o	DG8S262
0.167011	1.3457	149 0.114094		1.90957		-10	DG8S262
0.507263	1.10801	149 0.238255	Po4).43971	1	2	
0.138593	0.541764	149 0.020134		2.21593	1	-2	DG8S262
0.459657	0.80888	149 0.050336).54873	1		DG8S262
0.426938	0.62373	149 0.010067				4	DG8S262
0.231698	0.340068	149 0.003356	561 0.009804 0.008451	631137	1	6	DG8S262
0.169501	1.20E-12	149 4.29E-15	701	1.4304		-14	DG8S262
0.139116	1.19325	292 0.224315		.88735	1	8	DG8S262
0.25268	0.894052	292 0.530822		.18771	1	15	DG8S265
0.194727	1.63747	292 0.020548		.30843		18	DG8S265
0.697742	0.954193	292 0.202055		.68149	1	0	DG8S265
0.485853	0.758744	292 0.013699		150831		12	DG8S265
0.04908	5.17242		W-1	85697		21	DG8S265
0.289948	0.388333			3.8733		33	DG8S285
0.286333				.11986		-6	DG8S265
0.119002	1.19793 0.846488	256 0.501953 256 0.394531		.94148			DG8S266
0.775754	0.952397			2.4304		0	DG8S266
0.174019		256 0.103516		81143			DG8S266
0.174019	1.14617	284 0.424296		84797		-4	DG8S269
	0.790452	284 0.522887		61601	1	0	DG8S269
0.007424 0.207753	1.95983	284 0.052817		16744		-5	DG8S269
	0.855855	224 0.272321		<i>5</i> 8701	1 -	-2	DG8S271
0.165673	1.17828	224 0.645089		01576	1	0 1	DG8S271
0.76238	0.941163	224 0.082589		09142	1 :	2	DG8S271
0.248316	1.27E-11	224 2.24E-14		3327 <i>5</i>			DG8S271
0.08048	2.08801	276 0.019928	374 0.009644 0.012632 3.6	05518	1 -		DG8S277
0.613804	1.05848	276 0.28442	374 0.272997 0.276316 0.25				DG8S277
	0.853054	276 0.253623	374 0.284866 0.275789 1.9				DG8S277
	0.809775	276 0.063406					DG8S277
0.170558	1.17101	276 0.273551					DG8S277
0.892018	1.02996	276 0.057971					DG8S277
0.039967	0.32938	276 0.005435					
.404461	0.541014	278 0.003623 .	74 0.006677 0.005788 0.69				DG8S277
.300118	1.53598	276 0.018116	W4		_		DG8S277
.906912	0.95484	276 0.016304		3674			OG8S277
0.97755	0.976729	276 0.003623					0G8S277
	0.825761	254 0.543307					G8S277
0.13877	1.18065	254 0.360236		7439	_)G8S285
.687651	1.08508	254 0.076772		9154 1			G8S285
.559354	1.26506	254 0.019885		6164 1			G8S285
.356384	1.11164	239 0.633891					G8S285
				0596 1	0	Đ	G8S291

0.162405	0.655564	239	0.029289	506	0.044	0.039242	1.95169	1	-2	DG8S291
0.664214		239		500				i	4	DG8S291
0.976872	•	239		500						DG8S291
0.934355		239						1	2	
0.836583				500				1	6	DG8S291
		185		729				1	2	DG8S292
0.636583		185		729				1	0	DG8S292
0.93628		280	0.25	727				1	12	DG8S297
0.403305		280	0.330357	727				1	0	DG8S297
0.656559	1.06702	280	0.1375	727	7 0.129986	0.132075	0.19773	1	4	DG8S297
0.20533	0.81757	280	0.101786	727	7 0.121733	0.116187	1.60405	1	16	DG8S297
0.026116	2,06626	280	0.032143	727	0.015819	0.020358	4.94835	1	8	DG8S297
0.171493	2.03235	280	0.0125	727				1	-4	DG8S297
0.756145		280	0.021429	727				1	18	DG8S297
0.02801	0.35351	280	0.007143	727				i	6	DG8S297
0.641176		280	0.032143	727			0.217208	i	10	DG8S297
0.380383		280	0.064286							
0.507417	2.59929	280		727				1	14	DG8S297
			0.00178B	727			" 0.439391	1	. 2	DG8S297
0.518055	1.44644	280	0.008929	727				1	-2	DG8\$297
0.003916	1.51581	256	0.871094	1 726				†	0	DG8S298
0.003878	0.652947	256	0.121094	726				1	2	DG8S298
0.808617	0.871595	256	0.007813	726	0.008953	0.008656	0.058666	1	1	DG8\$298
0.441209	0.903605	265	0.798113	602	. 0.813953	0.809112	0.593136	1	0	DG8S301
0.441209	1.10668	265	0.201887	602	0.186047	0.190888	0.593136	1	1	DG8S301
0.641908	1.05266	247	0.356275	666	0.344595	0.347755	0.216255	1	26	DG8S302
0.890881	1.02213	247	0.125508	666	0.123123			1	24	DG8S302
0.395509	1.09979	247	0.340081	666				i	. 28	DG8S302
0.855019	0.958143	247	0.052632	668				i	30	DG8S302
0.075343	0.762485	247	0.125506	666			3.18281	i	0	DG85302
0.52425	0.930767	287	0.740418	756				i	2	DG8S303
0.861317	1.12959	287	0.005226	756						
0.519333								1	4	DG8S303
	1.07584	287	0.254355	756				1	-2	DG8\$303
0.422334	1.92E-14	287	1.27E-17	756		0.000479	0.643812	1	0	DG85303
0.828691	1.06	60	0.166667	315		0.16	0.046821	1	0	DG8S307
0.993008	1.00192	60	0.708333	315		0.708	7.68E-05	1	4	DG8S307
0.41298	1.30254	60	0.116667	315		0.096	0.670264	1	-4	DG8S307
0.038339	0.195216	60	0.008333	315	0.04127	0.038	4.28994	1	8	DG8S307
0.174508	0.867749	268	0.597015	689	0.630624	0.621212	1.84378	1	0	DG8S308
0.152562	1.20791	268	0.19403	689	0.166183	0.173981	2.04644	1	2	DG8S308
0.976251	0.994712	268	0.089552	689	0.089986	0.089864	0.000886	1	-14	DG8S308
0.352781	1.21652	268	0.067164	689	0.055878	0.059039	0.86343	1	-4	DG8S308
0,46913	0.781059	268	0.020522	689	0.026125	0.024556	0.524025	1	-6	DG8S308
0.541584	1.29032	268	0.016791	689	0.013062	0.014107	0.372611	i	-2	DG8S308
0.622344	0.819999	268	0.014925	689	0.018142	0.017241	0.242587	1	4	DG8S308
0,338258	1.69655	293	0.010239	660	0.006061					
0.626009	0.949049	293				0.007345	0.917023	1	8	DG8S316
			0.305461	660	0.316667	0.313221	0.237511	1	10	DG8S316
0.158291	1.15119	293	0.46587	660	0.431061	0.441763	1.99048	1	D	DG8S316
0.879686	0.978132	293	0.107509	660	0,109848	0.109129	0.022912	1	12	DG8S316
0.119081	0.771131	293	0.088737	660	0.112121	0.104932	2.42936	1	14	DG8S316
0.580561	0.807973	293	0.015358	660	0.018939	0.017838	0.305329	1	16	DG8S316
0.689952	1.28915	293	0.006826	660	0.005303	0.005771	0.159137	1	2	DG8S316
0.710668	1.04144	241	0.414938	606	0.405118	0.40791	0.13761	1	2	DG8S322
0,595587	0.852636	241	0.03112	608	0.036304	0.034829	0.281703	1	10	DG85322
0,355476	1.10787	241	0.392116	606	0.367987	0.374852	0.853813	1	0	DG8S322
0.511816	0,895057	241	0.109959	606	0.121287	0.118064	0.430354	1	4	DG8S322
0.178024	0.734605	241	0.051867	606	0.069307	0.064345	1.81404	1	6	DG8S322
0.907702	1.01284	297	0.728956	700	0.726429	0.727182	0.013442	i	ŏ	DG8S323
0.907702	0.987325	297	0.271044	700	0.273571	0.272818	0.013442	i	5	DG8S323
0.349639	1.10583	285	0.319298	695	0.297842	0.304082	0.874767	1	0	DG8S324
0.977007	0.990462	285	0.022807	695	0.023022	0.004002	0.000831		10	
0.443604	1.0948		0.236842	695	0.220863	0.22551	0.586942	1	8	DG8S324
0.057369	0.72887	285	0.087719	695	0.220863			1		DG8S324 DG8S324
	0.965635		0.119298				3.61186	1	6	
0.81871 0.974544		285		695	0.123022		0.052534	1	4	DG8S324
	0,996016 0,809524	285	0.198491	695	0.197122	0.196939	0.001018	1	2	DG8S324
0.560044		285	0.017544	695	0.021583	0.020408	0.839627	1	12	DG8S324
0.985668	0.997367	279	0.132616	726	0.13292		0.000323	1	-4	DG8S332
0.26551	0.798167	279	0.05914	726	0.073003	0.089154	1,2398	1	4	DG8S332
0.102733	0.824595	279	0.216846	726	0.251377	0.241791	2.6626	1	2	DG8S332
0.01251	0.734721	279	0.184588 .	726	0.235537	0.221393	6.2371	1	-2	DG8S332
0.00022	1.49355	279	0.340502	726	0.256887	0.2801	13,6552	1	0	DG8S332
0.312897	1.41148	279	0.02509	726	0.017908	0.019901	1.01841	1	-6	DG8S332
0.340492	1.28515	279	0.041219	726			0.908577	i	ē	DG8S332
0.138081	0.837115	260	0.257692	539	0.293135		2,19922	i	-5	DG8S333
0.138081	1,19458	260	0.742308	539	0.708865		2.19922	i	ō	DG8S333
	0.859129	295	0.377966	764	0.414267		2.34011	1	1	SG08S100
2.128081	1.16397	295	0.822034	764	0.585733		2.34011	1		
	0.711664		0.398305	387	0.481912		9.50073		2	SG08S100
0.002054	1.40516		0.601695	387				1	1	\$G08\$102
					0.518088		9.50073	1	2	SG08S102
	0.810575		0.621212	390		0.648472	3.4033	1	0	SG08S112
0.065066	1.23369		0.378788	390		0.351528	3.4033	1	2	SG08S112
	0.806452	297	0.5	700		0.537613	4.8078	1	0	SG08S120
0.028331	1.24	297	0.5	700		0.462387	4.8078	1	2	SG08S120
0.143127	0.852151	293	0.711804	746	0.743298	0.73438	2.14401	1	0	SG08S138
				F-1.	C 11	\sim 7				

0.143127	1.1735	293	0.288396	746	0.256702	0.26564	2,14401	1	2	SG08S138
0.006102	0.764033	295	0.498305	713	0.565217	0.545635	7.51987	1	0	SG08S15
0.008102	1,30884	295	0.501695	713	0.434783	0.454365	7.51987	1	2	SG08S15
0.033807	1.23132	297	0.503367	701	0,451498	0.466934	4.50445	1	0	SG08S26
0.033807	0.812135	297	0.496833	701	0.548502	0.533066	4.50445	1	2	SG08S26
0.024806	1.27723	294	0.506803	397	0.445844	0.47178	5.03735	1	2	SG08S27
0.024806	0.782947	294	0.493197	397	0.554156	0.52822	5.03735	1	1	SG08S27
0.150121	0.852391	295	0.581356	397	0.619647	0.603324	2.07102	1	1	SG08S32
0.150121	1.17317	295	0.418644	397	0.380353	0.396676	2.07102	1	0	SG08S32
0.067347	1.20817	292	0.636986	618	0.592233	0,606593	3.34653	1	1	SG08S35
0.067347	0.827701	292	0.363014	618	0.407767	0.393407	3.34653	1	2	SG08S35
0.014737	0.777004	294	0.435374	523	0.498088	0.47552	5.94763	1	1	SG08S39
0.014737	1,28699	294	0.564626	523	0.501912	0.52448	5.94763	1	0	SG08539
0.353952	0.909915	294	0.363946	689	0.386067	0.379451	0.85924	1	. 0	SG08S42
0,353952	1.099	294	0.636054	689	0.613933	0.620549	0.85924	1	2	SG08S42
0.824719	0.963618	295	0.098305	610	0.101639	0.100552	0.049054	1	1	SG08S46
0.824719	1.03775	295	0.901695	610	0,898361	0.899448	0.049054	1	3	SG08S48
0.00032	0.701393	291	0.517182	743	0.604307	0.579787	12.9497	1	. 0	SG08S5
0.00032	1.42574	~. 291	0.482818	743	0.395693	0,420213	12.9497	1 .	2	SG08S5
0.219611	0.88411	290	0,408621	685	0.438686	0.429744	1.50691	1	2	SG08S50
0.219611	1.13108	290	0.591379	685	0.561314	0.570256	1.50691	1	0	SG08S50
0.004498	0.73126	292	0.469178	381	0.547244	0.513373	8.07093	1	a	\$G08\$506
0.004498	1.3675	292	0.530822	381	0.452758	0,486627	8.07093	1	2	SG08S506
0.021168	0.765893	294	0,304422	396	0.363636	0,338406	5.31288	1	2	SG08S507
0.021168	1.30567	294	0.695578	396	0.636364	0,661594	5.31288	1	3	SG08S507
0.001044	0.692023	290	0.353448	392	0.441327	0.403959	10.7479	1	1	SG08S508
0.001044	1,44504	290	0.646552	392	0.558673	0.596041	10.7479	1	3	SG08S508
0.804879	1,07435	282	0.801418	371	0.789757	0.794793	0,2677	1	1	SG08S510
0.604879	0.930792	282	0.198582	371	0.210243	0.205207	0.2677	1	0	SG08S510
0.238703	1.14198	291	0.439863	362	0.407459	0.421899	1.38824	1	1	SG08S511
0.238703	0.875674	291	0.560137	362	0,592541	0.578101	1.38824	1	3	SG08S511
0.117631	1.18967	292	0.441781	388	0.399485	0.417647	2,44858	1	2	SG08S512
0.117631	0.84057	292	0.558219	388	0.800515	0.582353	2.44858	1	1	SG08S512
0.00892	0.749774	295	0.4	392	0.470663	0.44032	6.83873	1	1	SG08S517
0.00892	1,33373	295	0.6	392	0.529337	0.55968	6.83873	1	3	SG08S517
0.000365	1.49072	292	0.65411	397	0.559194	0,599419	12.701	1	1	SG08S520
0.000365	0.670815	292	0.34589	397	0.440806	0,400581	12,701	1	0	SG08S520
0.199841	0.856692	294	0.697279	391	0.7289	0.715328	1.64354	1	2	\$G08S6
0.199841	1.16728	294	0.302721	391	0,2711	0.284672	1.64354	1	0	SG08S6
0.003309	0.721047	285	0.422807	380	0.503947	0.469173	8.62898	1	1	SG08S70
0.003309	1.38687	285	0.577193	380	0.498053	0.530827	8.62898	1	3	5G08S70
4.32E-05	1,49537	295	0.605085	740	0.506081	0.5343	16.7266	1	0	SG08S71
4.32E-05	0.668732	295	0.394915	740	0.493919	0.4657	16.7266	1	2	SG08S71
0.000207	0.662887	292	0.412671	378	0.51455	0.470149	13,7681	1	3	SG08S73
0.000207	1,60855	292	0.587329	378	0.48545	0.529851	13.7681	1	1	SG08S73
0.195671	0.867883	293	0.44198	394	0.477157	0.462154	1.67439	1	1	SG08S76
0.195671	1.15223	293	0,55802	394	0.522843	0.537846	1.87439	1	2	SG08S76
0.91286	0.988164	296	0.508446	394	0.511421	0.510145	0.011975	1	. 0	SG08S90
0.91288	1.01198	296	0.491554	394	0,488579	0.489855	0.011975	1	1	SG08S90
0.007751	0.726157	297	0.765993	705	0.81844	0.802894	7.09002	. 1	1	SG08S93
0.007751	1,37711	297	0.234007	705	0.18156	0.197106	7.09002	1	2	SG08S93
0.639646	0.94514	275	0,321818	362	0.334254	0.328885	0.219205	1	0	SG08S94
0.639646	1,05804	275	0.678182	362	0.665746	0.671115	0.219205	1	2	SG08S94
0.000601	1.41718	294	0.496599	586	0.41041	0.439205	11.7742	1	2	SG08S95
0.000601	0.705628	294	0.503401	586	0.58959	0.580795	11.7742	1	3	SG08S95
0.132106	1,18662	295	0,816949	613	0,579935	0.59196	2.26758	1	2	SG08S96 '
0.132106	0.857175	295	0.383051	613	0.420065	0.40804	2.26758	1	3	SG08S96
0.878948	0.976023	299	0.894649	713	0.896914	0.896245	0.023196	1	0	SG08S97
0.878948	1.02457	299	0.105351	713	0,103086	0.103755	0.023196	1	1	SG08S97

71/90

Appendix 3: Output of association with bipolar disorder.										
			•			Frequency under Null Hypothesis				
		spa	Frequency in Affecteds	รู	Frequency in Controls	Null Hy	Ę			
	~	Number of Affecteds	ı Affe	Number of Controls	Co.	nder	Chi-square Statistic			
	Relative Risk	of A	الم الد	و ت	Ş	ğ	are S	Йол		
P-value	ative	nber	dner	aper.	quen	dneu	nbs	Information	후	Marker
									Allele	
0.636132 0.227291	0.927223 1.23195	96 96	0.640625 0.28125	811 811	0.65783 0.24106			1	4 0	AC022239-5 AC022239-5
0.316779 0.814911	0.740298 0.843158	96 96	0.0625 0.010417	811 811	0.0826141 0.0123305			1	8 -4	AC022239-5 AC022239-5
0.863298	1.20792	96	0.005208	811	0.0043157	0.00441	0.029845	• 1	-8	AC022239-5
0.412413 0.160568	2.12E-12 1.41548	96 88	3.93E-15 0,139535	811 574	0,0018496 0.102787			1	-12 12	AC022239-5 AC068974-2
0.421391	1.15389	86	0.313954	574	0.283972	0.287879	0.846434	1	14	AC068974-2
0.23462 0.860978	0.82084 1.07122	86 86	0.395349 0.046512	574 574	0.44338 0.043554			1 1	0 16	AC068974-2 AC068974-2
0.440332 0.367219	0.677047 0.718343	86 86	0.023258 0.046512	574 .	0.0339721 0.0635888			1	6 10	AC068974-2 AC068974-2
0.134389	2.25E-14	86	1.58E-16	574 574	0.0033888			1 1	20	AC058974-2
0.477172 0.597138	0.51057 6.66E-11	86 88	0.005814 4.94E-14	574 574	0.011324 0.0008711	0.010608		1 1	8 15	AC068974-2 AC068974-2
0.116188	3.37871	86	0.017442	574	0.0052265	0,006818	2.46797	1	18	AC068974-2
0.597138 0.518787	5.66E-11 2.23196	86 86	4.94E-14 0,005814	574 574	0.0008711 0.0026132	0.000758		1	2 -2	AC068974-2 AC068974-2
0.043377	64445.2	86	0.005813	574	9.07E-08	0.000758	4.08064	1	-4	AC068974-2
0.597138 0.754286	5,66E-11 0,933961	86 93	4.94E-14 0.145161	574 780	0.0008711	0.000758 0.152921		1	13 0	AC068974-2 AF131215-1
0.224689	0.81593	93	0.295899	780	0.339744	0.335052	1.47417	1	2	AF131215-1
0.846815 0.462742	1.0328 0.692307	93 93	0.317204 0.021505	780 780	0.310256 0.0307692	0.310997 0.029782		1	-2 22	AF131215-1 AF131215-1
0.100567	2.13967	93	0.037635	780	0.0179487	0.020046		1	-4	AF131215-1
0.673039 0.794508	1.16949 1.0907 6	93 93	0.048387 0.05914	780 780	0.0416667 0.0544872	0.042383 0.054983		1	8 : 4	AF131215-1 AF131215-1
0.716617 0.271308	1.26229 1.49821	93 93	0.016129 0.053764	780 780	0.0128205 0.0365385	0.013173	0.131758 1.21012	1 1	-6 10	AF131215-1 AF131215-1
0.634992	6.50E-10	93	4.17E-13	780	0.000641	0.000573	0.225352	1	6	AF131215-1
0.034229 0.501936	62457 1.77E-12	93 93	0.005376 2.28E-15	780 780	8,65E-08 0,0012821	0.000573	4.48322 0.45084	1 1	14 12	AF131215-1 AF131215-1
0.187336	0.81879	98	0.484694	780	0.534615	0.529043	1.73844	1	0	AF131215-2
0.152999 0.699807	1,24434 0.878137	98 98	0.454082 0.051021	780 780	0.400641 0.0576923	0.406606	2.04209 0.148673	1	4 8	AF131215-2 AF131215-2
0.416268	2,00001	98	0.010204	780	0.0051282	0.005695	0.660829	1	-4	AF131215-2
0.399191 0.244447	1.69E-12 0,834808	98 97	3.26E-15 0.386598	780 795	0.0019231 0.430189	0.001708 0.425448	0.710761 1.35476	1	-8 0	AF131216-2 AF131215-4
0.018541	1.4314	97	0.525773	795	0.436478	0.446188	5.54432	1	14	AF131215-4
0.482884 0.017526	0,81344 0.170104	97 97	0,06701 0.005155	795 795	0.0811321 0.0295597	0.079598	0.492344 5.64289	1	12 8	AF131215-4 AF131215-4
0.988347 0.239428	1.02487 5.16E-12	97 97	0.015484	795 795	0.0150943 0.0037738	0.015135	0.001575	1	16	AF131215-4
0.282932	8.68E-13	97	1.96E-14 2.74E-15	795	0.0037736	0.003363 0.002803	1.38396 1.15295	1 1	18 10	AF131215-4 AF131215-4
0.631289 0.282669	5.34E-10 1.36545	97 96	3.36E-13 0.083333	795 801	0.0006289 0.062422	0.000561 0.06466	0.230316 1.15421	1 1	4 -6	AF131215-4 AF188029-1
0.268777	0.834559	96	0.307292	801	0.347066	0.342809	1.22298	1	0	AF188029-1
0.549289 · 0.594626	0.886101 1.10444	96 96	0.166667 0.21875	801 801	0.184145 0.202247	0.182274 0.204013		1 1	-8 -4	AF188029-1 AF188029-1
0.821729	0.907332	98	0.03125	801	0.0343321	0.034002	0.05077	1	2	AF188029-1
0.239275 0.31964	0.525159 1.29493	98 98	0.015625 0.104167	801 801	0.0293383	0.027871 0.084727	1.38486 0.990419	1 1	-12 -2	AF188029-1 AF188029-1
0.171693	1,53673	96	0.072917	801	0.0486891	0.051282	1.8681	1	-10	AF188029-1
0.834184 0.074425	4.00E-10 7.99E-12	96 96	2.50E-13 7.05E-14	801 801	0.0006242 0.0087391	0.000557	0.226457 3.18262	1	6 4	AF188029-1 AF188029-1
0.857216	1.02828	95	0.431579	804	0.424751	0.425473	0.032371	1	0	AF188029-10
0.44934 0.691359	0.887774 0.869309	95 95	0.378947 0.047368	804 804	0.407338 0.0541045	0.404338 0.053393	0.572316 0.157618	1 1	2 8	AF188029-10 AF188029-10
0.244804 0.714284	1,38547	95	0.1 0.042105	804 804	0.0752488 0.0366915	0.077864	1.35271 0.134035	1	4	AF188029-10 AF188029-10
0.503764	1.15403 4.00E-10	95 95	4.98E-13	804	0.0012438	0.001112	0.446998	1	-2 -4	AF188029-10
0.636436 0.717684	5.51E-10 1.07492	95 94	3.43E-13 0.18617	804 795	0.0006219 0.175472	0.000558 0.176603	0.223433 0.130723	1	6 0	AF188029-10 AF188029-12
0.793631	0.926871	94	0.074468	795	0.0798742	0.079303	0.068434	1	4	AF188029-12
0.634645 0.438125	1.07691 0.844172	94 94	0.579787 0.138298	795 795	0.561635 0.159748	0.563555 0.15748	0.225814 0.601188	1	-12 -4	AF188029-12 AF188029-12
0.862499	1.20931	94	0.005319	795	0.0044025	0.004499	0.029996	1	12	AF188029-12
0.775155	0.843242	94	0.015957	795	0.0188679	0.01856	0.08159	1	8	AF188029-12

FIG. 11D1

0.100	707	0.0000		_							
0.196		0.82086			33 80	9 0.584	672 0.57	947 1.6665			A = 1000000 =
0.248		1.19447			99 80		988 0.394			Ō	
0.552		1.47921		0.01546					•	-4	
0.53		0.55371	97	0.00515						2	
0.191	893	3.36041	97							-2	AF188029-7
0.340	916	1.01E-10					902 0.003			4	AF188029-7
0.639	475	1.09324								6	AF188029-7
0.067				-					1	0	AF287957-1
0.025				-,			098 0.382	312 3.34908		-6	
		3.04845				0.0189	309 0.0234			4	,
0.880		1.06508		0.05555		0.0523	385 0.0527			-4	AF287957-1
0.475		1.51682		0.03174	6 449				•		AF287957-1
0.423	074	1.60292	63	0.03174					1	2	AF287957-1
0.945 ⁻	167	0.949461	63	0.01587					1	-2	AF287957-1
0.118	589	1.87752							1	-14	AF287957-1
0.9689	953	0.993269	100						1	-12	D8S1130
0.2153		0.78042							1	4	D8S1130
0.9733			100					66 1.53532	1	Ó	D8S1130
		0.991546	100			0.09573	24 0.0956		1	8	D8S1130
0.8188		1.04133	100	0.23	5 867	0.2277	97 0,2285	42 0.052464	i	8	
0.7208		0.927687	100	0.145	867	0.1545	56 0.1535				D8S1130
0.4415		1.33774	100	0.045		0.03402			.1	-4	D8S1130
0.9788	16	1.0202	100	• 0.01		0.00980			1	12	D8S1130
0.4181	55	4.07E-12	100	7.05E-15					1	16	D8S1130
0.0330		79563,9	100	0.004999		0.00173			1	2	D8S1130
0.8375		1.03489	99			6.32E-		17 4.54233	1	20	D8S1130
0.9094		1.01727		0.282828		0.2759	24 0.2766	52 0.042022	1	0	D8S1469
0.4059			99	0.469697		0.4654	35 0.46588	35 0.012924	1	4	D8S1469
		1.18419	99	0.171717		0.1489	87 0.15138		i	8	
0.7048		1.27538	99	0,015152	839	0.0119	19 0.0122		1		D8S1469
0.2377		0.657424	99	0.040404	839	0.06019				' 12	D8S1469
0.207		0.546582	99	0.020202		0.036352			1	3	D8S1469
0.5040	45	1.40E-12	99	1.67E-15		0.001191			1	-4	D8S1469
0.2004		0.81685	90	0.422222		0.47218			1	7	D8S1469
0.66693	36 (0.921986	90	0.216667					1	0	D8S1695
0.0078		2.01962	80	0.122222	845	0.23076			1	8	D8S1695
0.8914		1.04602			845	0.06449		4 7.06711	1	6	D8S1695
		0.899543	90	0.061111	845	0.058579	9 0.05882	4 0.018626	1	10	D8S1695
			90	0.105556	845	0.11597	6 0.11497		i	4	
0.16758		1.7815	90	0.044445	845	0.025443			í		D8S1695
0.93568		1.04419	90	0.022222	845	0.021301				12	D8S1695
0.96808	12	1.04345	90	0.005556	845	0.005325			1	2	D8S1695
0.23344	7 3	3.37E-13	90	1.40E-15	845		2 0.00374		. 1	14	D8S1695
0.52448	4 4	.71E-13	90	5.58E-16	845	0.00414			1	16	D8S1695
0.65272		.90E-10	90	1.12E-13		0.001183		7 0.405068	1	-4	D8S1695
0.34864		.840511	96		845	0.000591		0.202477	1	9	D8S1695
0.15258				0.213542	643	0.24416	3. 0.240189	0.878374	1	34	D8S1721
		0.50491	96	0.020833	643	0.040435	0.037889	2.04623	i	36	D8S1721
0.91638		1.01665	96	0.411458	643	0.407465	0.407984	0.011021	1	0	
0.78503		937634	96	0.119792	643	0.12675	0.125846	0.074401			D8S1721
0.06496		1.54723	96	0.140625	643	0.0956454			1	2	D8S1721
0.56542	10.	666315	96	0.010417	643	0.0155521			1	4	D8S1721
0.084188	8 1	1.79531	96	0.067708	643	0.0388802		0.330405	1	8	D8S1721
0,807388	5 O.	835523	96	0.010417	643				1	24	D8S1721
0.479937		512687	96	0.005208		0.0124417			1	32	D8S1721
0.23772		71E-12	96		643	0.0101089		0.499006	1	38	D8S1721
0.597747		11E-11		6.69E-15	643	0.003888		1.39406	1	26	D8S1721
0.597747			96	3.20E-14	643	0.0007776	0.000677	0.278407	1	6	D8S1721
		11E-11	96	3.20E-14	643	0.0007776	0.000677	0.278407	i	-4	
0.360592		65E-12	96	2.02E-14	643	0.0023328	0.00203	0.83583	i		D8S1721
0.597747		11E-11	96	3.20E-14	643	0.0007776		0.278407		30	D8S1721
0.142602		301487	101	0.564356	866	0.617783			1	-2	D8S1721
0.397877	0.7	793563	101	0.074258	866	0.0918014	0.089969	2.14965	1 '	0	D8S1759
0.466242	1	.40237	101	0.029703	866	0.0213626		0.714734	1	2	D8S1759
0.07637	1.	.62526	101	0.094059	866		0.022234	0.530869	1	6	D8S1759
0.357415		.22571	101			0.0600462	0.063599	3.1405	1	4	D8S1759
0.33652		34288	101	0.138614 0.069307	866	0.116051	0.118407	0.846955	1	12	D8S1759
0.544338					866	0.0525404	0.054292	0.923645	1		D8S1759
0.504658			101	0.009901	866	0.0150116	0.014478	0.367562	1		D8S1759
		33584	101	0.004951	866	0.0092379	0.00879	0.445127	i		
0.982661		02935	101	0.014852	866	0.0144342	0.014478	0.002102			D8S1759
0.415705		9E-12	101	7.96E-15	866	0.0017321		0.662425	1		D8S1759
0.373568	1.	18012	63	0.5	702	0.458689		0.002425	1		D8S1759
0.322396	0,6	85215	63	0.055556	702		0.462092		1	0	DBS1825
0.593823		15537	63	0.142857	702	0.0790598	0.077124	0.9792	1	8	DBS1825
0.093314		49083	63			0.126068	0.127451		1		D8S1825
0.495342	-,-	1.216		0.134921	702	0.193732	0.188889	2.81625	1		DBS1825
0.680675			63	0.126984	702	0.106838	0.108497	0.484902	1	-	08S1825
		59657	63	0.007936		0.0049858		0.169367	i		
0.25365		96863	63	0.031748	702		0.017647	1.30309	í	-	08S1825
0.353489		BE-11	63	5.28E-14			0.003268	0.880884			08S1825
0.119951		0E-11	63	4.43E-13		0.0099715	0.00915		1		08S1825
0.67839	. 1.14	4E-11	63	8.13E-15		0.0003713	0.0000	2.41798	1	12 [8S1825
0.317308			79	0.398734	844	0.0007123	0.000854 (1	14 [8S1825
0.11626			7 9		841		0.361957	1.00001	1		8S285
0.019755				0.202532	841		0.157609		1		8S265
0.265927			7 9	4.07E-13			0.016304		i		8S265
			79		841		0.078804		;	_	
0.260573			79	0.120253	841	0.152794	0.15	1.26571			8S265
0.872194			79			0.0856124	0.084789				8S265
0.757312	1.1	2702	79		841	0.0451843	045652				8S265
						<i>d d</i> P		.020408 ,	l	12 D	8S265

Flg. 11D2

0.790552	1.07922	79	0.094937	841	0.088585	0.08913	0.07054	1	14	D8\$265
0.671704	2.16E-10	79	1.29E-13	841	0.0005945	0.000543	0.179615	1	-3	D8S265
					0.010107	0.009239	3.06744	i	16	D8S265
0.079875	2.92E-12	79	2.98E-14	841						
0.343023	3.46E-12	79	1.03E-14	841	0.0029727	0.002717	0.899099	1	8	D8S265
0.462784	1.45E-12	79	2.60E-15	841	0.0017836	0.00163	0.539152	1	10	D8S265
0.671704	2.16E-10	79	1.29E-13	841	0.0005945	0.000543	0.179615	1	20	D8S265
					0.0005945	0.000543	0.179615	i	1	D8S265
0.671704	2.16E-10	79	1.29E-13	841						
0.671704	2.16E-10	79	1.29E-13	841	0.0005945	0.000543	0.179815	1	-4	D8S265
0.700978	1.12637	64	0.101562	762	0.0912074	0.09201	0.147457	1	0	D8S351
0,160376	1.35485	64	0.257812	762	0.204068	0.208232	1.97068	1	18	D8S351
										D8S351
0.140611	1.36696	64	0,273438	762	0.215879	0.220339	2.17126	1	2	
0.0828	0.610815	64	0.101563	762	0.156168	0.151937	3.00906	1	6	D8S351
0.087491	1.42E-11	64	1.70E-13	762	0.011811	0.010898	2.91993	1	10	D8S351
0.329101	0.689311	64	0.054687	782	0.0774278	0.075666	0.952431	1	8	D8S351
0.714128	0.844366	64	0.039063	762	0.0459318	0.0454	0.134188	1	20	D8S351
0.475253	0.758494	64	0.054688	762	0.0708661	0.069613	0.509735	1	4	D8S351
0.627473	1.16309	64	0.101563	762	0.0885827	0.089588	0.235503	1	16	D8S351
			0.007812	762	0,0216535	0.020581	1,43819	1	14	D8S351
0.230432		64								
0.132055	1.12E-12	64	1.03E-14	762	0.0091864	0.008475	2,26817	. 1	12	D8S351
0.641023	1.70641	64	0.007813	762	0.0045932	0.004843	0.217407	1	-2	D8S351
0.421546	1.39E-10	64	· 3.67E-13	762	0.0026247	0.002421	0.646001	1	22	D8S351
							0.128067	1	-6	D8S503
0.720445	0.943516	96	0.322917	825	0.335758	0.334419				
0.650243	0.928762	96	0.317708	825	0.333939	0.332248	0.205594	1	0	D8S503
0.368534	1.19191	96	0.197917	825	0.171515	0.174267	0.8086	1	-2	D8S503
0.55512	0:814091	96	0.046875	825	0.0569697	0.055918	0.348225	1	-4	D8S503
									2	D8S503
0.776741	0.885429	96	0.03125	825	0.0351515	0.034745	0.080411	1		
0.143381	1.53953	96	0.083333	825	0.0557576	0.058632	2.14129	1	'8	D8S503
0.416197	9.71E-12	96	1.77E-14	825	0,0018182	0.001629	0.661029	1	-10	D8\$503
				825	0.0054546	0.004886	1.98651	1	4	D8S503
0.158706	3.62E-12	96	1.98E-14							
0.250019	8.33E-13	96	3.04E-15	825	0.0036364	0.003257	1.3232	1	-12	D8S503
0.026569	0.718366	101	0.50495	876	0.586758	0.578301	4.91862	1	2	D8S516
0.12838	1.30831	101	0,247525	876	0,200913	0.205732	2,31198	1	4	D8S516
									ō	D8S516
0.351225	1.2526	101	0.113861	876	0.0930365	0.095189	0.869025	1		
0.804679	1.06406	101	0.09901	876	0.0936073	0.094186	0.061155	1	-2	D8S516
0.624055	1.37502	101	0.014851	876	0.0108448	0.011259	0.240209	1	-4	D8S516 '
0.262284	0.373998	101	0,00495	876	0.0131279	0.012283	1.25666	1	6	D8S516
0.014431	8.78888	101	0.014851	876	0.0017123	0.003071	5.98463	1	8	D8S516
0.147569	. 1,2585	95	0.415789	663	0.361237	0.368074	2,0972	1	6	D8S520
0.079351	0.702699	95	0.163158	663	0.217195	0.210422	3,07815	1	8	D8S520
			0.005263	683	0.0218703	0.019789	3.19818	i	10	D8S520
0.07372	0.236635	95								
0.454748	1.19606	95	0.126316	663	0.107843	0.110158	0.558791	1	0	D8S520
0.681499	0.875169	95	0.057895	663	0.0656109	0.064644	0.168443	1	-10	D8S520
0.155991	1.39865	95	0.136842	663	0.10181	0.108201	2.01267	1	4	D8S520
					0.0067873	0.005937	2.41804	1	-12	D8S520
0.119945	7,46E-12	95	5.10E-14	663						
0.643367	0.886546	95	0.094737	663	0.105581	0.104222	0,214366	1	2	D8S520
0.061455	3.16E-16	95	3.13E-18	663	0,0098039	0.008575	3,49769	1	-2	D8S520
0.48409	1.17E-13	95	1.77E-16	663	0.0015083		0.536012	1	12	D8S520
									9	D8S520
0.604736	9.35E-12	95	7.06E-15	663	0.0007541	0.00068	0.267911	1		
0.160754	0,808303	97	0.474227	840	0.527381	0.521878	1.96712	1	0	D8S542
0.554142	0.907693	97	0.304124	840	0.325	0.322839	0.349949	1	2	D8S542
0.007528	1.67593	97	0.22165	840	0.145238	0.163148	7.14237	1	4	D8S542
						0.001601				D8S542
0.417889	1.77E-10	97	3.16E-13	840	0.0017857		0.856244	1	-2	
0.64009	4.66E-14	97	2.78E-17	840	0.0005952	0.000534	0.218624	1	-12	D8S542
0.709164	1.10417	93	0.096774	814	0.0884521	0.089305	0.139113	1	-8	D8S550
0.820119	1.05534	93	0,123656	814	0.117936	0.118523	0.051707	1	12	D8S550
									14	D8S550
0.07782	0.726739	93	0.22043	814	0.280098	0.27398	3.10985	1		
0.170811	0.72134	93	0.107527	814	0.14312	0.139471	1.87581	1	-2	D8S550
0.064467	2.12756	93	0.048387	814	0.0233416	0.02591	3.41856	1	8	D8S550
0.097575	1.77163	93	0.064516	814	0.0374693	0.040243	2.74473	1	18	D8S550
			0.05914	814	0.0706388		0.356512	i	-6	D8S550
0.55045	0.826982	93								
0.487631	1.19986	93	0.102151	814	0.0866093	0.088203	0.481749	1	16	D8S550
0.656014	1.14821	93	0.069893	814	0.0614251	0.082293	0.198401	1	0	D8S550
0.395481	1.28543	93	0.080645	B14	0.0638821	0.065601	0.722025	1	10	D8S550
				B14	0.0055283	0.004961	1.9524	1	2	D8S550
0.162329	6.71E-12	93	3.73E-14							
0.343372	1.63802	93	0.026882	814	0.0165848	0.017641	0.897801	1	20	D8S550
0.51053	1.09E-10	93	1.35E-13	814	0.0012285	0.001103	0.43298	1	6	D8S550
0.351936	2.92E-14	93	7.19E-17	814	0.002457	0.002205	0.866466	1	22	D8S550
				814	0.0012285	0.001103	0.43298	i	4	D8S550
0.51053	1.09E-10	93	1.35E-13							
0.136893	0.656779	27	0.5	391	0.803581	0.59689	2.21254	1	1	DG00AAHBG
0.136893	1.52258	27	0.5	391	0.396419	0.40311	2.21254	1	2	DG00AAHBG
0.300119	0.81773	66	0.659091	725	0.702759	0.699115	1.07366	i	2	DG00AAHBH
					0.297241		1.07366			DG00AAHBH
0.300119	1.2229	66	0.340909	725		0.300885		1	1	
0.247129	0.797863	62	0.629032	811	0.680025	0.676403	1.33946	1	3	DG00AAHBI
0.247129	1.25335	62	0.370968	811	0.319975	0.323597	1.33946	1	1	DG00AAHBI
	1.25165	86	0.232558	531,	0.194915	0.200162	1.26941	i	ò	DG8S117
0.259878										
0.259878	0.798948	86	0.767442	631	0.805085	0.799838	1.26941	1	9	DG8S117
0.949601	0.983559	101	0.910891	826	0.912228	0.912082	0.003995	1	0	DG8S118
0.949601	1.01672	101	0.089109	826	0.0877724	0.087918	0.003995	1	5	DG8S118
	0.826649	87	0.396552	604	0.442881	0.437048	1.33609	i	ŏ	DG8S127
0.247725										
0.51935	0.845888	87	0.103448	604	0.120033		0.415183	1	6	DG8S127
0.09682	1.30975	87	0.5	604	0.432947	0.441389	2.75718	1	1	DG8S127
0.245581	8.27E-12	87	3.44E-14	604	0.0041391	0.003618	1.34827	1	2	DG8S127
		•							-	

0.677323	0.92813	93	0.736559	646	0.750774	0.748985	0.173155	1	0	DG8S128
0.677323	1.07744	93	0.263441	646	0.249226			i	4	DG8S128
0.610112		92	0.353261	772	0.372409			i	4	DG8S130
		92								
0,334773			0.5	772	0.537565			1	0	DG8S130
0.002632		92	0.086957	772	0.0349741			1	-16	DG85130
0.986165		92	0.01087	772	0.0110104			1	-4	DG8S130
0.664976	1.18581	92	0.04347B	772	0.0369171	0.037616	0.187536	1	8	DG8S130
0.244659	6.34E-13	92	2.47E-15	772	0.003886	0.003472	1.35355	1	-12	DG8S130
0,291287	4.2132	92	0.005435	772	0.0012953			1	12	DG8\$130
0.410915		92	4.84E-14	772	0.001943			i	-8	DG8\$130
0.71498	1.08295	98	0.862245	739	0.852503			1	0	DG8\$134
0.592821	0.888749	98	0.132653	739	0.14682	0.145161	0,285961	1	4	DG8S134
0,183435	7.57436	98	0.005102	739	0.0006766	0.001195	1.76957	1	2	DG8S134
0.774128	1.04852	92	0.668478	779	0.657895	0.659013		1	0	DG8S136
0.986516	1.00499	92	0.076087	779	0.0757381			1	-6	DG8S138
		92								
0.803865	1.09048		0.054348	779	0.0500642			1	2	DG8S136
0.641268	0.84886	92	0.048913	779	0.0571245			1	-4	DG8S136
0.940311	1.02503	92	0.059783	779	0.0584082	0.058553	0,005607	1 .	. 4	DG8S136
0.39935	0.705966	92	0.032609	779	0.0455712	0.044202	0.710282	.1	6	DG8S136
0,251291	0.532856	92	0.016304	779	0.0301669	0.028703		1	-2	DG8S136
0.412203	1.52634	92	0.027174	779	0.0179718			i	B	DG8S138
0.290348	3.25E-12	92	1.05E-14	779	0.0032092	0.00287	1.11801	1	-8	DG8S138
0.288632		92	0.005435	779	0.0012837			1	10	DG8S136
0.636514	4.82E-11	92	3.09E-14	779	0.0006418	0.000574	0.22333	1	-10	DG8S136
0.08618	5.69597	92	0.01087	779	0.0019256	0.00287	2.94432	1	-14	DG8S138
0.131875	0.554385	19	0.210526	234	D.32478B	0.316206	2.27265	1	-2	DG8S137
0.24739	1.87447	19	0.131579	234	0.0747863		1.33798	i	· 2	DG8S137
		19	0.052632	234						
0.971193	1.02778				0.0512821	0.051383		1	10	DG8S137
0.753076		19	0.078947	234	0.0940171	0.092885	0.098965	1	4	DG8S137
0.616114	1.29561	19	0.131579	234	0.104701	0.106719	0.251367	1	6	DG8S137
0,470942	1.46006	19	0.131579	234	0.0940171	0.096838	0.519764	1	-4	DG8S137
0.558647		19	0.184211	234	0.224359	0.221344	0.342052	1	o	DG8S137
0.697516	1.55406	19	0.026316	234	0.017094				12	DG8S137
							0.151068	1		
0.193815	6.29729	19	0.026316	234	0.0042735		1.68838	1	18	DG8S137
0.692589	1.98E-10	19	4.23E-13	234	0.0021368	0.001976	0.156297	1	14	DG85137
0.428411	1.33E-11	· 19	1.14E-13	234	0.008547	0.007905	0.627129	1	8	DG8S137
0,022558	108030	19	0.026313	234	2.50E-07	0.001976	5.20224	1	16	DG8S137
0.059505	0.607662	91	0.082418	761	0.128778		3.55114	i	-1	DG8S138
0.056362	1.65529	91	0.917582	761	0.870565		3.64134	i	ó	DG8S138
0.634523	4.06E-10	91	2.67E-13	761	0,000857	0.000587	0.225977	1	1	DG8S138
0.992623	1.00158	81	0.401235	585	0.400855	0.400901	8.55E-05	1	0	DG8S147
0.990781	1.00198	81	0.598765	585	0.598291	0.598348	0.000134	1	2	DG8S147
0.610492	1.11E-12	81	9.53E-16	585	0.0008547	0,000751	0.25946	1	1	DG8S147
0,306745	0.715394	97	0.051546	694	0.0706052	0.068268	1.04484	1	-4	DG8S148
0.189157	1.24392	97	0.324742	694	0.278818	0.28445	1.72417	i	2	DG8S148
0.023262	0.644275	97	0.170103	694	0.241354	0.232617	5.14887	1	-2	DG8S148
0.486186	1.11554	97	0.402062	694	0.376081	0.379267	0.484957	1	0	DG8S148
0.499249	1.31378	97	0.041237	694	0.0317003	0.03287	0.456533	1	4	DG8S148
0.003727	78879.2	97	0.010308	694	1.32E-07	0.001264	8,41214	1	8	DG8S148
0.469286	5.48E-11	97	7.91E-14	694	0.0014409	0.001264	0.523658	1	-17	DG8S148
0.113102	1.39634	50	0.51	473	0.427061	0.43499	2.51033	i	-2	DG8S153
0.755554	0.90203	50			0.120507					
			0.11	473		0.119503	0.096923	1	0	DG8S153
0.630406	0.626936	50	0.01	473	0.0158562		0.231511	1 ·	-6	DG8S153
0.693522	0.815219	50	0.04	473	0.0486258	0.047801	0.155299	1	2	DG8S153
0.843493	0.938637	50	0,12	473	0.12685	0.126195	0.038978	1	6	DG8S163
0.836	1.13938	50	0.03	473	0.0264271	0.026769	0.042854	1	14	DG8S153
0.081855	0.540989	50	0.08	473	0.138478		3.02767	i	8	DG8S153
0.940056	1.03404	50	0.06	473	0.0581395	0.058317	0.005655	i	10	DG85153
								-		
0.934189	1.05269	50 50	0.03	473	0.0285412		0.006819	3	4	DG8S153
0.315528	1.24E-11	50	6.58E-14	473	0.0052854	0.00478	1.0074	1	12	DG8\$153
0.480374	2.37881	50	0.01	473	0.0042283	0.00478	0.498013	1	-4	DG8\$153
0.691922	0.906871	43	0.290698	453	0.311258	0.309476	0,157012	1	4	DG8S155
0.260822	1.47027	43	0.139535	453	0.0993377	0.102823	1.26439	1	8	DG8S155
0.980677	0.990648	43	0.093023	453	0.093819	0.09375		1	2	DG8S155
0.316582	0.759107	43	0.197674	453	0,245033			i	6	
							1,00302			DG8S155
0.613999	1.38763	43	0.034884	453	0.0253863	0.02621		1	14	DG8S155
0.45684	1.29768	43	0.127907	453		0.103831	0.554118	1	0	DG8S155
0.682666	0.825983	43	0.058139	453	0.0695364	0.068548	0,16714	1	10	DG8\$155
0.319621	0.515478	43	0.023256	453	0.0441501	0.042339		1	12	DG8\$155
0.128687	10.6473	43	0,011628	453	0.0011037		2,30827	i	-18	DG8S155
0.331858	3.54119	43	0,011628	453	0.0033113	0.004032				
								1	-10	DG8S155
0.670119	8.40E-13	43	9.28E-16	453	0.0011038	0.001008		1	-2	DG8S155
0.460382	1.52E-11	43	5,04E-14	453	0.0033113	0.003024		1	16	DG8S155
0.128687	10.6473	43	0.011628	453	0.0011037	0.002016	2,30827	1	-12	DG8\$155
0.40513	1.14371	89	0.41573	777	0.383526	0.386836	0.693046	1	6	DG8S156
0.245044	0.83143	89	0.522472	777	0.568211	0.56351	1.35134	i	ő	DG8S156
0.20887	1.63567	89	0.050582	777	0.0315315	0.033487	1.57924	1		DG8S156
									-6	
0.401222	2.9209	89	0.005618	777	0.0019305	0.002309		1	3	DG88156
0.285718	0.378077	89	0.005618	777	0.0148005	0.013857	1.23872	1	8	DG8S156
0.33947	0.732904	82	0.920732	558	0.940647	0.938088		1	0	DG8S159
0.475481	1.29748	82	0.060976	556	0.0476619	0.049373	0.509211	1.	-2	DG88159
0.502159	1.57525	82	0.018293	556	0.0116908			1	2	DG8S159
								•	4	200100
				L	10 11	. 1/1				

75/90

0.365298	0.8673	95	0.389474	735	0.42381	0.41988	0.819604	1	0	DG8S161
0.365296	1,163	95	0.810526	735 ~	0.57619	0.58012	0.819604	1	2	DG8S161
									ō	DG8S163
0.104578	1.27982	97	0.530928	815	0.469325		2.6343	1		
0.104578	0.781357	97	0.469072	815	0.530675	0.524123	2,6343	1	3	DG8S163
0.616405	1.09015	83	0.349398	759	0.33004	0.331948	0.250952	1	0	DG8S170
										DG8S170
0.438895	0.877032	83	0.620482	759	0.650856			1	2	
0.413258	1.60494	83	0.024096	759	0.0151515	0.016033	0.66941	1	-4	DG8S170
0.266779	4,59391	83	0.006024	759	0.0013175	0.001781	1.23323	1	-19	DG8S170
0.519255	9.02E-11	83	1.19E-13	759	0.0013175	0.001188	0.415373	1	-8	DG8S170
0.519255	9.02Ε-11	83	1.19E-13	759	0.0013175	0.001188	0.415373	1	-2	DG8S170
0,139776	0.791041	95	0.378947	643	0.435459		2.18043	1	14	DG8S177
0.693639	0.675133	95	0.005263	643	0.0077761	0.007453	0.155174	4.	20	DG8\$177
0.364696	1.17506	95	0.268421	643	0.237947	0.24187	0,821658	1	12	DG8S177
			0.105263	643	0.0948678			1	18	DG8S177
0.653875	1.12247	95								
0.457666	9.87E-11	95	1.54E-13	643	0.0015552	0.001355	0.65.1597	1	·2	DG8S177
0.880841	0.951725	95	0.057895	643	0.0606532	0.060298	0.022471	1	0	DG8S177
0.82908	1.05125	95	0.131579	643	0.125972			1	16	DG8S177
0.278312	1.49758	95	0.052632	643	0.0357698	0.03794	1.17531	1.	10	DG8S177
0.724908	0.944594	87	0.511494	622	0.525723	0.523977		1	'0	DG8S179

0.724908	1.05866	87	0.488506	622	0.474277			1	7	DGBS179
0.762507	0.948204	95	0,263158	. 625	0.2738	0.272222	0.091319	1	10	DG8S181
	0.763986	95	0,21579	625	0.2648		2.1374	i	12	DG8S181
0.143746								-		
0.095135	0.638224	95	0.078947	625	0.1184	0.113194	2.78526	1	4	DG8S181
0.180075	1.39938	95	0.121053	625	0.0898	0.09375	1.79701	1	0	DG8S181
		95		625	0.136		2,95109	i	8	DG8S181
0.08582	1.43454		0.184211							
0.506027	1.47192	95	0.021053	625	0.0144	0.015278	0.442274	1	16	DG8S181
0.846265	0.91141	95	0.026316	625	0.0288	0.028472	0.037592	1	, 18	DG8S181
					0.0592			i	14	DG8S181
0.624977	1.1672	95	0.068421	625			0.238934			
0,205305	3.31384	95	0.010526	625	0.0032	0.004167	1.60423	1	-2	DG8S181
0.84956	0.821429	95	0.005263	625	0.0084	0.00625	0.035978	1	2	DG8S181
0.953238	0.93953	95	0.005263	625	0.0056		0.003439	1	6	DG8S181
0.351987	0.752231	68	0.897059	818	0,920538	0.918736	0.866281	1	0	DG8S182
0.351987	1.32938	68	0.102941	818	0.0794621	0.081264	0.866281	1	-3	DG8S182
0.457958	0.867661	81	0.734568	641	0.76131	0.75831	0.550882	1	0	DG8S188
0.457958	1.15252	81	0.265432	641	0.23869	0.24169	0.550882	1	-1	DG8S188
0.419757	1.1713	59	0.59322	568	0.554577	0.558214	0.650995	1	. 0	DG8S192
0.51537	1.17558	59	0.194915	568	0.170775	0.173046	0.423149	1	2	DG8S192
0.207352	0.338217	59	0.008475	568	0.0246479	0,023126	1.58982	1	16	DG8S192
0.245975	0.658408	59	0.067797	568	0.0994718	0.096491	1,34602	1	-2	DG8\$192
0.677246	1.16807	59	0.076271	568	0.0660211	0.066986	0.173242	1	4	DG8S192
0,319662	2.38E-12	59	1.05E-14	568	0.0044014	0.003987	0.990328	1	8	DG8\$192
0.57227	0.800065	59	0.059322	568	0.0730634	0.07177	0.318899	i	12	DG8S192
0.529354	1.62E-13	59	2.87E-16	568	0.0017606	0.001595	0.395632	1	-4	DG8S192
0.373517	7.84E-11	59	2.77E-13	568	0.0035211	0.00319	0.791929	1	10	DG8S192
		59		568	0.0017606	0.001595	0.395632	i	14	DG8S192
0.529354	1.62E-13		2.87E-16							
0.021783	0.700803	97	0.546392	730	0.632192	0.622128	5,26301	1	0	DG8\$197
0.021783	1.42694	97	0.453608	730	0.367808	0.377872	5.26301	1	1	DG8S197
0.092803	1.29436	98	0.566327	677	0.502216	0,510323	2,82506	1	ò	DG8S201
0.935151	0.98689	98	0.331633	677	0.334564	0.334194	0.00882	1	4	DG8S201
0.021273	0.54752	98	0.076531	677	0.131462	0.124516	5.30432	1	-2	DG8S201
		98		677	0.0317578		0.234624			DG8S201
0.628116	0.798125		0.02551			0.030968		1	2	
0.779148	0.908211	97	0.948454	735	0.953061	0.952524	0.078641	1	Ö	DG8S212
0.779148	1.1035	97	0.051546	735	0.0469388	0.047476	0.078641	1	2	DG8S212
					0.646684	0.642697				
0.501767	0.866166	53	0.613207	392			0.451197	1	4	DG8S215
0.469316	1,1675	53	0.386792	392	0.350765	0.355056	0.523585	1	0	DG8S215
0.476067	6.32E-11	53	1.62E-13	392	0.002551	0.002247	0.507858	1	2	DG8S215
					0.361301					
0.049325	1.4219	83	0.445783	292		0.38	3.86426	1	0	DG8S221
0.492758	1.14224	83	0.301205	292	0.273973	0.28	0.470498	1	5	DG8S221
0.001985	0.416254	83	0.078313	292	0.169521	0.149333	9.56296	1	-2	DG8S221
0.357409	0.668952	83	0.036145	292	0.0530822		0.846976	1	7	DG8S221
0.922396	0.974125	83	0.120482	292	0.123288	0.122667	0.00949	1	4	DG8S221
0.868514	0.878049	83	0.012048	292	0.0136986	0,013333	0.027406	1	1	DG8S221
0.479182	4.03E-11	83	6.91E-14	292	0.0017123		0.500724	1	8	DG8\$221
0.655811	1.76363	83	0.006024	292	0.0034247	0.004	0.198652	1	-1	DG8S221
0.787685	1.04516	94	0.340426	728	0.330578	0.331707	0.072532	1	0	DG8S232
0.458767	1.12444	94	0.409575	726	0.381543		0.548901	1	2	DG8S232
0.053827	0.622749	94	0.095745	726	0.145317		3.71806	1	-8	DG8S232
0.695287	1.11362	94	0.090426	726	0.0819559	0.082927	0.153421	1	-4	DG8S232
0.965139	0.982323	84	0.037234	726	0.0378788		0.00191	i	4	DG8S232
0.519055	1.38954	94	0.026596	726	0.0192837	0.020122	0.41577	1	-2	DG8\$232
0.621627	8.43E-13	94	5.81E-16	726	0.0006887	0.00081	0.243588	1	-6	DG8S232
0.323362	1.26E-10	94	3.48E-13	726	0.0027548		0.9753	i	6	DG8S232
0.030967	2.01171	96	0.953125	672	0.90997		4.6548	1	0	DG8\$238
0.030967	0,497086	96	0.046875	672	0.0900298	0.084635	4.6548	1	-8	DG8S238
				476	0.644958	0.636981	2.41372	i	4	DG8\$242
0.120276	0.73024	57	0.570176							
0.120276	1.36941	57	0.429825	476	0.355042	0.363039	2.41372	1	0	DG8S242
0.130702	1.55627	93	0.930108	488	0.895299	0.90107	2,28415	1	0	DG8\$245
				468		0.060606	0.008471	i	-4	
0.926667	0.969323	93	0.05914							DG8S245
0.019055	0.25	93	0.010753	468	0.0416667	0.036542	5.4965	1	4	DG8\$245
0.394274	4.62E-11	93	9.90E-14	468	0.0021368	0.001783	0.72572	1	-8	DG8S245
				682	0.569648	0.565274	0.963792		õ	DG8S249
0.326233	0.851099	84	0.529762					1		
0.396524	1.19007	84	0.208333	682	0.181085	0.184073	0.718843	1	-19	DG8S249
				_	10 11					

0.92549	1.06008	84	0.017857	682	0.0168622	0.016971	0.008746	1	-17	DG8S249
0.278027	0.382948	84	0.005952	682	0.0153959					DG8S249
								1	-21	
0.901316	0.966221	84	0.095238	682	0.0982405	0.097911	0.015376	1	-2	DG8S249
0.701106	1.35743	84	0.011905	682	0.0087977	0.009138	0.147323	1	6	DG8S249
0.356731	1.39991	84	0.059524	682	0.0432551					
								1	2	DG8S249
0.020299	3.87E-12	84	6.64E-14	682	0.0168622	0.015013	5.386	1	-6	DG8S249
0.95049	0.95464	84	0.011905	682	0.0124633	0.012402		1	4	DG8S249
0.094561	1.89873	84	0.059524	682	0.0322581	0.035248	2.79496	1	-4	DG8S249
0,201691	1.05E-11	84	5.43E-14	682	0.005132	0.004569	1.63009	1	-1	DG8S249
0.394709	1.31798	96							-	
			0.087708	584	0.052226			1	-10	DG8S250
0.354176	0.841246	96	0.213542	584	0.244007	0.239708	0.85844	1	-4	DG8S250
0.668478	1.10211	96	0.140625	584	0.129281					
								1	2	DG8S250
0.278992	1.22976	96	0.223958	584	0.190068	0.194853	1.17199	1	4	DG8S250
0.481973	1,23503	98	0.078125	584	0.0842123			1	-2	DG8S250
0.075071	0.71287	96	0.192708	584	0.250856	0.242647	3.16851	1	0	DG8S250
0.896366	1.10718	96	0.010417	584	0.0094178	0.009559	0.016966	1	8	DG8\$250
0.078427	2.81235	96	0.026042	584	0.0094178		3.0972	. 1	-8	DG8S250
0.695254	0.790201	96	0.015625	584	0.0196918	0.019118	0.153456	1	. 6	DG8S250
0.760007	1.22011	96	0.015625	584	0.0128425				-12	DG8S250
								.1		
0.90986	1.0747	96	0.015625	584	0.0145548	0.014708	0.012818	1	-6	DG8S250
0.269464	7.68E-14	96	2.64E-16	584	0.0034247	0.002941	1.21947	1	12	DG8S250
0.751011	0.949842	92	0.619565	680	0.631618			1	0	DG8S257
0.770454	1.11429	92	0.048913	680	0.0441178	0.044689	0.085136	1	-6	DG8S257
0.95664	1.00924	92	0.315217	680	0.313235			1	-2	DG8S257
0.942723	1.05652	92	0.01087	680	0.0102941	0.010363	0.005162	1	2	DG8S257
0.187243	7.42615	92	0.005435	680	0.0007353	0.001295	1.73918	1	-9	DG8S257
0.599971	1.11205	83	0.216867	637	0.199372	0.201389	0.275039	1	ı 15	DG8S258
0.208266	1.23457	83	0.602409	637	0.55102	0.556944	1.58344	1	18	DG8S258
		83	2.29E-17	637						DG8S258
0.047074	1.80E-15				0.0125589		3.94276	1	0	
0.048887	0.650118	83	0.150602	637	0.214286	0.206944	3.87924	1	12	DG8S258
0.483799	3.57E-11	83	5.61E-14	637	0.0015699		0.490289	1	24	DG8S258
0.706939	1.23358	83	0.024096	637	0.0196232	0.020139	0.141353	1	21	DG8S258
0.483799	3.57E-11	83	5,61E-14	637	0.0015699	0.001389	0.490289	1	33	DG8S258
0.037537	58362.2	83	0.006023	637	1.04E-07	0.000694	4.3259	1	11	DG8\$258
0.759909	0.936597	57	0.692982	549	0.70674	0.705446	0.093391	1	2	DG8S261
0.759909	1.06769	57	0.307018	549	0.29326	0.294554	0.093391	1	0	DG8S261
0.969404	1.02076	55	0.036364	561	0.0356506	0.035714	. 0.001471	1	-4	DG8S262
0.683866	0.921811	55	0.509091	561	0.529412	0.527597	0.165806	1	0	DG8S262
0.843058	0.931097	55	0.081818	561	0.087344	0.086851	0.039197	1	-10	DG8S262
0.216881	1.32844	55	0.272727	561	0.220143	0.224838	1.52489	1	2	DG8S262
0.603723	0.739227	55	0.027273	561	0.0365419	0.035714	0.269417		-2	DG8S262
								1		
0.767637	Q.88043 6	55	0.054546	561	0.0614973	0.060877	0.087301	1	4	DG8S262
0.86772	1.1358	55	0.018182	561	0.0160428	0.016234	0.027741	1	6	DG8S262
	8.87E-13	55								
0.150491			8.79E-15	561	0.0098039	0.008929	2.06726	1	-14	DG8S262
0.386639	2.81E-11	55	1.01E-13	561	0.0035651	0.003247	0.749485	1	8	DG8S262
0.233927	1.24619	97	0.231959	751	0.195073	0.199292	1.41682	1	15	DG8S265
0.823939	1.03482	97	0.56701	751	0.558589	0.559552	0.049498	1	18	DG8S265
0.031167	2.75E-12	97	3.53E-14	751	0.0126498	0.011203	4.64376	1	0	DG8S265
	0.772375	97								
0.189591			0.170103	751	0.20972	0.205189	1.7208	1	12	DG8S265
0.473203	1.44523	97	0.025773	751	0.017976	0.018868	0.514486	1	21	DG8S265
0.485625	4.63E-11	97	8.17E-14	751	0.0013316	0.001179	0.486205	1	33	DG8S265
0.925649	1.10659	97	0.005155	751	0.0046605	0.004717	0.008709	1	-8	DG8S265
0.631697	1.08177	85	0.476471	615	0.456911	0,459286	0.229767	1	-2	DG8\$266
						0.433571				
0.777865	0.954415	85	0.423529	615	0.434959		0.079582	1	0	DG8S266
0.74591	0.916458	85	0.1	615	0.10813	0.107143	0.105	1	-4	DG8S266
0.484424	1.11477	97	0.417526	741	0.391363	0.394391	0.488888	1	-4	DG8S269
0.111271	0.783298	97	0.520619	741	0.580972	0.573986	2.53608	1	0	DG8S269
0.020752	2.31734	97	0.061856	741	0.0276653	0.031623	5,34751	1	-5	DG8S269
0.012522	0.536447	50	0.19	567	0.304233	0.294976	6.23539	i	-2	DG85271
0.096503	1.44289	50	0.69	567	0.606702	0.613452	2.7624	1	0	DG8S271
0.673308	1.16162	50	0.1	567	0.0873016	0.088331	0.177756	1	2	DG8S271
0.027247	11.5511	50	0.02	567	0.0017637	0.003241	4.87508	i	4	DG8S271
0.201722	2.20843	95	0.021053	674	0.0096439	0.011053	1.62986	1	-6	DG8S277
0.036175	1.41743	95	0.347368	674	0.272997	0.282185	4.38885	1	10	DG8S277
0.63596		95								
	0.921088		0.268421	674	0.284868	0.282835	0.224065	1	0	DG8S277
0.865799	0.951486	95	0.073684	674	0.0771513	0,076723	0.02856	1	-2	DG8S277
0.094726	0.726956	95	0.189474	674	0.243323	0.236671	2.79217	1	2	DG8S277
0.241235	0.640208	95	0.036842	674	0.0563798	0.053966	1.37337	1	8	DG8S277
0.956609	0.96694	95	0.01579	674	0.0163205	0.016255	0.00296	1	4	DG8S277
			0.010526							
0.577818	1.58274	95		874	0.0066766	0.007152		1	-4	DG8S277
0.057844	2.71467	95	0.031579	674	0.0118694	0.014304	3.59816	1	6	DG8S277
0.161764	0.304808	95	0.005263	674	0.0170823	0.015605				
							1.95766	1	12	DG8S277
0.25043	1.15E-12	95	4.27E-15	674	0.0037092	0.003251	1.32091	1	14	DG8S277
0.765951	1.05169	83	0.60241	576	0.590278	0.591806		1	Ö	DG8S285
0.684656	0.929874	83	0.307229	576	0.322917	0.320941	0.164932	1	2	DG8S285
0.742479	1.10872	83	0.078313	576	0.0711805	0.072079	0.10796	1	1	DG8S285
0.716093	0.768292	83	0.012048	576	0.015625	0.015175				
								1	-1	DG8S285
0.571041	0.909551	87	0.586207	500	0.609	0.605622	0.320945	1	0	DG8S291
0.066487	0.38118	87	0.017241	500	0.044	0.040034	3.36769	1	-2	DG8S291
0.9626	1.00913	87	0.235632	500	0.234	0.234242	0.002199	1	4	DG8S291
0.081896	1.52991	87	0.149425	500	0.103	0.109881	3.02687	1	2	DG8S291
0.858761	1.15116	87	0.011494	500		0.010222		i	6	DG8S291
-,,			5.5.1757					•	3	200201

0.988027	1,00277	80	0.7125	729	0.711934	0.71199	0.000225	1	2	DG8S292
0.988027	0.997243	80	0.2875	729	0.288066	0.28801		1.	ō	DG85292
0.831828	1.03938	90	0.25555	727	0.248281	0.249082	0.045098	1	12	DG8S297
0.551964	0.905275	90	0.327778	727	0.350069	0.347613	0.353811	1	Q	DG85297
0.933583	0.980521	90	0.127778	727	0.129986				4	
		-						1	-	DG8S297
0.290398	1.27318	90	0.15	727	0.121733	0.124847	1.11778	1	16	DG8S297
0.223202	0.347581	90	0.005556	727	0.0158184	0.014688	1.48366	1	8	DG85297
					0.0061898					
0.053097	3.64899	80	0.022222	727				1	-4	DG85297
0.464751	1.4551	90	0.027778	727	0.0192572	0.020196	0.534428	1	18	DG85297
0.379013	0.552111	90	0.011111	727	0.019945	0.018972		1	8	DG8S297
0.974297	0.984668	90	0.027778	727	0.0281981	0.028152	0.001038	1	10	DG8\$297
0.593688	0.820513	90	0.044444	727	0.0538451	0.052632	0.284622	1	14	DG8S297
0.62894	7.55E-10	90	5.20E-13	727	0.0006878				2	
								1		DG85297
0.146628	6.57E-12	90	4.09E-14	727	0.0061898	0.005508	2.10699	1	-2	DG8S297
0.484916	0.874705	98	0.795918	726	0.816804	0.81432	0.487787	1 1	0	DG8S298
0.503167										
	1.13979	98	0.193878	726	0.174242			1	2	DG8S298
0.864815	1.14118	98	0.010204	726	0.0089532	0.009102	0.028984	1	1	DG8S298
0.945889	1.01429	87	0.816092	602	0.813953	0.814224	0.004606	1	0	DG8S301
0.945889	0.985915	87	0.183908	602	0.186047			.1	1	DG85301
0.575354	1.0993	86	0.366279	666	.0.344595	0.347074	0.313806	1	26 .	DG8S302
0.345297	0.781118	86	-0.098837	666	0.123123			1	24	DG85302
0.771509	0.950489	86	0.30814	668	0.319069	0.317819	0.084333	1	28	DG8S302
0.629411	1.17834	86	0.063954	666	0.0548048	0.055851	0.23286	1	30	DG8S302
0.882719	1.03304	88	0.162791	866	0.158408	0,15891		i	0	DG8S302
0.701115	1.07445	88	0.767045	756	0.753968	0.755332	0.147314	1	2	DG8S303
0.30383	2.47127	88	0.011364	756	0.0046296	0.005332	1.05731	1	- 4	DG8\$303
0.569859	0.897809	88	0.221591	758	0.240741					
								1	۰ -2	DG8S303
0.638818	9.80E-13	88	6.48E-16	756	0.0006614	0,000592	0.220291	1	0	DG8S303
0.573528	0.843182	51	0.137255	315	0.15873			1	0	DG8S307
0.323683	1.27067	51	0.754902	315	0.707936		0.974008	1	4	DG8S307
0.425627	0.726679	51	0.088628	315	0.0920635	0.088798	0.634727	1	-4	DG8\$307
0.922209	0.948194	51	0.039216	315	0.0412698	0.040984		1	8	DG8S307
0.171256	0.801526	90	0.577778	689	0.630624	0.624519	1.87192	1	0	DG8S308
0.265085	1.25437	90	0.2	689	0.168183	0.17009	1.242	1	2	DG8\$308
0.369125	1.28411	90	0.111111	689	0.0899855		0.806607	1	-14	DG8S308
0.391559	1.31527	90	0.072222	689	0.0558781	0.057766	0.734097	1	-4	DG8S308
0.175154	0.418852	90	0.011111	689	0.0261248	0.02439	1.83827	1	-6	DG8S308
0.340146	0.422097	90	0.005558	689	0.0130624	0.012195	0.909881	1	-2	DG8S308
0.710487	1.23	90	0.022222	689	0.0181422	0.018614	0.137791	1	4	DG8S308
0.859898	0.832488	99	0.005051	660	0.0060606	0.005929	0.031154	1	8	DG8S316
0.808112	0.960815	99	0.308081	660	0.316667	0.315547	0.058982	1	10	DG8\$316
0.375005	1.14554	99	0.464646	660	0.431081	0.435441	0.787011	1	0	DG8\$316
0.129566	0.664218	99	0.075758	660	0.109848	0.105402	2.2977	1	12	DG8S316
0.867332	1.04077	99	0.116162	660	0.112121	0.112648	0.027905	1	14	DG8S316
0.319464	1.61875	88	0.030303	660	0.0189394	0.020422	0.99114	1	18	DG8\$316
0.16135	2.63E-12	89	1.40E-14	660	0.005303	0.004611	1.96153	1	2	DG8S316
0.720932	1.07685	52	0.423077	606	0.405116	0.406535	0.127601	i	2	DG8S322
0.685172	0.788479	52	0.028846	606	0.0363036	0.035714	0.164362	1	10	DG8S322
0,268308	1.25949	52	0.423077	606	0.367987	0,37,234	1.22537	1	0	DG8S322
0.012976	0,365904	52	0.048077	606	0.121287	0.115502	6.17244	i		DG8\$322
									4	
0.773078	1.11905	52	0.076923	606	0.0893069	0.089909	0,083146	1	6	DG8S322
0.735723	0.944798	100	0.715	700	0.726429	0.725	0.113921	1	0	DG8S323
0.735723	1.05843	100	0.285	700	0.273571	0:275				
							0.113921	1	5	DG8S323
0.63791	1.08125	97	0.314433	695	0.297842	0.299874	0.221486	1	0	DG8\$324 ,
0.298388	1.58857	97	0.036083	695	0.0230216	0.024621	1.08138	1	10	DG8S324
		97								5000051
0.890423	0.974756		0.216495	695	0.220863	0.220328	0.01898	1	8	DG8S324
0.316602	0.775253	97	0.092784	695	0.116547	0.113636	1.00293	1	6	DG8S324
0.529445	1.15254	97	0.139175	695	0.123022	0.125	0.395457	1	4	DG8S324
0.466028	0.865511	97	0.175258	695	0.197122	0.194444	0.531379	1	2	DG8S324
0.715962	1.1993	97	0.025773	695	0.0215827	0.022096	0.132395	1	12	DG8S324
0.321194	0.785941	93	0.107527	726	0.13292	0.130037	0.984077	i	-4	DG8\$332
0.877088	0.954194	93	0.069893	726	0.0730028	0.07265	0.02392	1	4	DG8\$332
0.206955	0.790105	93	0.209878	726	0.251377	0.246642	1.5926	1	2	DG8S332
0.530606	0.889209	93	0.215054	726	0.235537	0.233211	0.393231	i	-2	DG8S332
0,042593	1.41167	93	0.327957	726	0.256887	0.264957	4.1115	1	0	DG8\$332
0,217107	1.8282	93	0.032258	726	0.0179063	D.01953B	1.52339	1	-6	DG8S332
0.710218	1,16902	93	0.037634	726	0.0323691	0.032967	0.13806	1	6	DG8\$332
0.055924	0.696624	87	0.224138	539	0.293135	0.283546	3.65431	1	-5	DG8S333
0.055924	1.43549	87	0.775862	539	0.706865	0.716454	3.65431	1	Q	DG8S333
0.131157	0.790449	99	0.358586	764	0.414287					
						0.407879	2.27876	1	1	SG08S100
0.131157	1.2651	99	0.641414	764	0.585733	0.592121	2.27876	1	2	SG08S100
0.016777	0.677563	97	0.386598	387	0.481912	0.46281	5.71957	1	1	SG08S102
					0.518088					
0.016777	1.47588	97	0.613402	387		0.53719	5.71957	1	2	SG08S102
0.437006	0.878672	100	0.64	390	0.669231	0.663265	0.604132	1	0	SG08S112
0.437006	1.13808	100	0.36	390	0.330769	0.336735	0.604132	i	2	SG08S112
0.377735	0.874364	99	0.520202	700	0.553571	0.549437	0.778059	1	0	SG08S120
0.377735	1.14369	99	0.479798	700	0.446429	0.450563	0.778059	1	2	SG08S120
0.190291	0.801929	98	0.69898	746	0.743298	0.738152	1.71536	1	ō	SG08S138
0.190291										
	1.24699	88	0.30102	746	0.258702	0.261848	1.71536	1	2	SG08S138
0.144357	0.800952	99	0.510101	713	0.565217	0.558498	2.13089	1	0	SG08S15
0.144357	1.24851	99	0.489899	713	0.434783	0.441502	2.13089	1	2	SG08S15
0.157518	1,23984	99	0.60505	701	0.451498	0.468125	1.9979	1	0	SG08S26
					10 44	D7				

78/90

0.157518		99	0.494949	701	0.548502	0.54187	1.9979	1	2	SG08S26
0.133952		100	0.505	397	0.445844			1	2	SG08S27
0.133952		100	0.495	397	0.554156		2.2481	1	1	SG08S27
0.141165		97	0.561856	397	0.619847		3 2.16521	1	1	SG08S32
0.141165		97	0,438144	397	0.380353			1	0	SG08S32
0.145678		99	0.646465	618	0.592233	0.599721	2.11696	1	1	SG08S35
0.145676		99	0.353535	618	0.407767			1	2	SG08S35
0.212203		100	0.45	523	0.498088		1.55634	1	1	SG08S39
0.212203		100	0.55	523	0.501912		1.55634	1	0	SG08S39
0.648445	.,,	98	0.403061	689	0.386067			1	0	SG08S42
0.648445		89	0.596939	689	0.613933		0.207867	1	2	SG08S42
0.305752		99	0.126263	610	0.101639			1	1	SG08S46
0.305752		99	0.873737	610	0.898361			1	3	SG08546
0.027638		96	0,520833	743	0.804307		4.8505	1	0	SG0855
0.027638	1.40503	96	0.479167	743	0,395693			1	. 2	SG08S5
0.684961	1.06429	98	0.454082	685	0.438686	0.440613	0.164606	1	2	SG08S50
0.684951	0.939598	98	0.545918	685	0.561314			1	0	SG08S50
0.006504	0.643485	96	0.4375	381	0.547244	0.525157	7.40506	1	0	SG08S506
0.006504	1.55404	96	0.5625	381	0.452758		7.40508	1 '	2	SG08S506
0.228808	0.816667	99	0.318182	396	0.363636	0.354545	1.44826	1	2	SG08S507
0.228808	1.22449	88	0.681818	398	0.636364			1	3	SG08S507
0.094402		98	0.375	392	0.441327			1	1	SG08S508
0.094402	1.31659	98	0.625	392	0.558673		2.79766	1	3	SG08S508
0.590396	1.11521	96	0.807292	371	0.789757			1	1	SG08S510
0.590396	0.896691	96	0.192708	371		0.206638		1	0	SG08S510
0.872061	0.973708	96	0.401042	362	0.407459		0.025934	1	1	SG08S511
0.872061	1.027	96	0.598958	362	0.592541	0.593886	0.025934	1	, 3	SG08S511
0.781	1.04689	95	0.410527	388	0.399485			1	2	SG08S512
0.781	0.955211	95	0.589474	388	0,600515			1	1	SG08S512
0.123314	0.781544	100	0.41	392		0.458333		1 .	1	SG08S517
0.123314	1.27952	100	0.59	392	0.529337			1	3	SG08S517
0.091179	1.31381	100	0,625	397	0.559194		2.85343	1	1	SG08S520
0.091179	0.761143	100	0.375	397	0.440806		2.85343	1	0	SG08S520
0.789675	0.953493	98	0.719388	391	0.7289			1	2	SG08S6
0,789675	1.04877	98	0.280612	391	0.2711	0.273008	0.071147	1	0	SG08S6
0.128973	0.781948	96 .	0.442708	380	0.503947		2.30483	1	1	SG08S70
0.128973	1.27886	96	0.557292	380	0.496053	0.508403	2.30483	1	3	SG08S70
0.011735	1.47013	99	0.60101	740	0.506081	0.517.282	6.35045	1	G	SG08S71
0.011735	0.680212	99	0.39899	740	0.493919	0.482718	6.35045	1	2	SG08S71
0.042417	0.720449	97	0.43299	378	0.51455	0.497895	4.1185	1	3	SG08S73
0.042417	1.38802	97	0.56701	378	0.48545	0.502105	4.1185	1	1	SG08S73
0.085087	0.758593	99	0.409091	394	0.477157	0.463489	2.96496	1	1	SG08S76
0.085087	1.31823	99	0.590909	394	0.522843	0.536511	2.96496	1	2	SG08S76
0.391224	1.1464	99	0.545455	394	0.511421	0.518256	0.735135	1	0	SG08S90
0.391224	0.872294	99	0.454545	394	0.488579	0.481744	0.735135	1	1	SG08S90
0.168081	0.773965	101	0.777228	705	0.81844	0.813275	1.90016	1	1	SG08S93
0.168061	1.29205	101	0.222772	705	0.18156	0.186725	1.90016	1	2	SG08S93
0.159581	0.775408	91	0.28022	362	0.334254	0.3234	1.97819	1	0	SG08S94
0.169581	1.28964	91	0.71978	362	0.665746	0.8768	1.97819	1	2	SG08S94
0.026638	1.407B6	99	0.49495	586	0.41041	0.422628	4.91413	1	2	SG08S95
0.026638	0.710299	99	0.505051	588	0.58959	0.577372	4.91413	1	3	SG08S95
0.504013	1.10942	100	0.605	613	0.579935	0.58345	0.446476	1	2	SG08S96
0.504013	0.901372	100	0.395	613	0.420085	0.41655	0.446476	1	3	SG08S96
0.892559	1.0344	100	0.9	713	0.898914	0.897294	0.018243	1	D	SG08S97
0.892559	0.966742	100	0.1	713	0.103086	0.102706	0.018243	1	1	SG08S97
				F	IG. 11	D8				
					. J. 1					

79/90

Appendix	3: Outpu	ıt of ass	ociation wi	th blp	olar disord	er withou	ıt panic di:	sorder		
						Frequency under Null Hypothesis				
j						/pot/	•			
			8		25	£			•	
i .		Number of Affecteds	Frequency in Affecteds	Number of Controls	Frequency in Controls	N N	sfic			
	.	Œ	n Af	Ž	ပ္ခ	ınde	Chl-square Statistic			
	RIS	of A	2	Ş	ī,	Ę,	are .	ig.		.]
P-value	Relative Risk	1ber	lan.	-per	Jane	dner	nbs	Information	٠	Marker
P-va	Rel								Allele	Man.
0.363622 0.305708	0.836763 1.24469	60 60	0.616667 0.283333	811 811 .	0.65783 0.24106	0.654994 0.243972	0.825344 1.04913	1	4 0	AC022239-5 AC022239-5
0.977998	1.0095	60	0.083333	811	0.082614	0.082664	0.0007606	1	8	AC022239-5
0.69447 0.316991	1.35763 1.51E-11	60 60	0.016667 6.55E-14	811 811	0.012331 0.004316	0.012629 0.004018	0.154289 1.00132	1	-4 -8	AC022239-5 AC022239-5
0.512664	1.39E-10	60	2.68E-13	811	0.00185	0.001722	0.428626	ገ	-12	AC022239-5
0.111109 0.723343	1.59559	55 55	0.154546 0.3	574 574	0.102787 0.283972	0.107313 0.285374	2.53838 0.125312	1 1	12 14	AC068974-2 AC068974-2
0.287331	0.805706	55	0.390909	574	0.44338	0.438792	1.13208	1	0	AC068974-2
0.604326 0.335492	1.26692 0.526588	55 55	0.054545 0.018182	574 574	0.043554 0.033972	0.044515 0.032591	0.26852 0.927581	1	· 16 6	AC068974-2 AC068974-2
0.432112	0.70124	55	0.045455	574	0.063589	0.062003	0.61714	1	10	AC068974-2
0.225515 0.121956	1.51E-18 4.11E-12	55 55	1.06E-18 4.71E-14	574 574	0.006969 0.011324	0.008359 0.010334	1.46893 2.39201	1	, 20 8	AC068974-2 AC068974-2
0.66874	3.17E-10	55	2.76E-13	574	0.000871	0.000795	0.18308	1	15	AC068974-2
0.037867 0.68874	5.33647 3.17E-10	55 55	0.027273 2.76E-13	574 574	0.005226	0.007154 0.000795	4.311 0.18308	1	18 2	AC068974-2 AC068974-2
0.00074	3.50155	55 55	0.009091	574	0.002613	0.00318	0.928159	1	-2	AC068974-2
0.66874	3.17E-10	55 58	2.76E-13 0.172414	574 780	0.000871 0.153846	0.000795 0.155131	0.18308 0.276476	1	13 0	AC068974-2 AF131215-1
0.59902 0.299873	1.14583 0.805799	58	0.293104	780	0.339744	0.336516	1.07476	i	2	AF131215-1
0.998415	1.00041	58	0.310345	780	0.310256 0.030769	0.310263 0.029833	3.94E-06 0.793693	1	-2 22	AF131216-1 AF131215-1
0.372986 0.562829	0.552631 1.45259	58 58	0.017241 0.025862	780 780	0.030769	0.029633	0.793093	1	-4	AF131215-1
0.699929	0.821431	58	0.034483	780	0.041667	0.04117	0.148546	4	8 4	AF131215-1 AF131215-1
0.320657 0.294411	1.45959 2.04424	58 58	0.077586 0.025862	780 780	0.054487 0.012821	0.056086	0.986266 1.09934	1	-6	AF131215-1
0.723982	1.18777	58	0.043104	780	0.036539	0.036993	0.124709	1	10	AF131215-1
0.704833 0.592101	4.37E-12 1.18E-14	58 58	2.80E-15 1.52E-17	780 780	0.000641 0.001282	0.000597 0.001193	0.143493 0.287074	1	6 12	AF131215-1 AF131215-1
0.697802	0.929521	61	0.516394	780	0.534615	0.533294	0.150769	1	0	AF131215-2
0.579915 0.690189	1.11131 0.844827	61 61	0.426229 0.04918	780 780	0.400641 0.057692	0.402497 0.057075	0.306372 0.158881	1 1	4 8	AF131215-2 AF131215-2
0.676324	1.60332	61	0.008197	780	0.005128	0.005351	0.174294	1	-4	AF131215-2
0.501289 0.478237	1.79E-11 0.870426	61 58	3,45E-14 0.396552	780 795	0.001923 0.430189	0.001784	0.452205 0.502881	1 1	-8 0	AF131215-2 AF131215-4
0.184845	1.29107	58	0.5	795	0.436478	0.440797	1.75824	1	14	AF131215-4
0.634514 0.12748	0.838932 0.285477	58 58	0.068968 0.008621	795 795	0.081132 0.02956	0.080305 0.028136	0.225988 2.32292	1 1	12 8	AF131215-4 AF131215-4
0.407604	1.7323	58	0.025862	795	0.015094	0.015827	0.68578	1	16	AF131215-4
0.357529 0.401027	6.82E-12 1.09E-10	58 58	2.58E-14 3.45E-13	795 795	0.003774 0.003145	0.003517	0.846552 0.705246	1	18 10	AF131215-4 AF131215-4
0.70741	1.51E-13	58	9.51E-17	795	0.000629	0.000586	0.140878	1	4	AF131215-4
0.096302 0.142988	1.76706 0.734164	57 57	0.105263 0.280702	801 801	0,062422 0.347066	0.065268	2.76575 2.14551	1 1	-6 0	AF188029-1 AF188029-1
0.475623	0.83072	57	0.157895	801	0.184145	0.182401	0.508884	1	-8	AF188029-1
0.832496 0.965978	1.05185 1.02281	57 57	0.210526 0.035088	801 801	0.202247 0.034332		0.0447331 0.0018193	1 .	-4 2	AF188029-1 AF188029-1
0.434288	0.590808	57	0.017544	801	0.029338	0.028555	0.611329	1	-12	AF188029-1
0.261327 0.184115	1.43339 1.67473	57 57	0.114035 0.078947	801 801	0.082397 0.048689	0.084499	1.26172 1.76409	1	-2 -10	AF188029-1 AF188029-1
0.710751	3.94E-10	57	2.46E-13	801	0.000624	0.000583	0.137528	1	6	AF188029-1
0.164433	3.63E-11 1.10038	57 58	3.20E-13 0.448276	801 804	0.008739 0.424751	0.008159 0.426334	1.93298 0.243897	1	4 0	AF188029-1 AF188029-10
0.621405 0.127551	0,736929	58	0.336207	804	0.424731	0.402552	2.32207	1	2	AF188029-10
0.778226	1.12275	58 58	0.060345	804 804	0.054105 0.075249	0.054524 0.078306	0.0793164 2.72014	1 1	8 4	AF188029-10 AF188029-10
0.099089 0.901714	1.68676 0.937651	58 58	0.12069 0.034483	804 804	0.076249	0.036543	0.0152515	1	-2	AF188029-10
0.597494	1.96E-10	58	2.45E-13	804	0.001244	0.00116 0.00058	0.278792 0.139354	1	-4 6	AF188029-10 AF188029-10
0.708924 0.579137	1.64E-10 1.14863	58 56	1.02E-13 0.196429	804 795	0.000622 0.175472	0.176851	0.307631	1	0	AF188029-12
0.985476	1.00657	56	0.080357	795	0.079874	0.079906	0.0003314	1	4	AF188029-12 AF188029-12
0.593852 0.978505	0.900594 1.0072	56 56	0.535714 0.160714	795 795	0.561635 0.159748	0.559929 0.159812	0.284369 0.0007259	1	-12 -4	AF188029-12
0.543585	2.03734	56	0.008929	795	0.004403	0.0047	0.368935	1	12	AF188029-12
0.938849 0.835837	0.945455 0.961074	56 60	0.017857 0.575	795 809	0.018868 0.584672	0.018801 0.584005	0.0058853 0.0429404	1 1	8 0	AF188029-12 AF188029-7
0.691804	1.07951	60	0.408333	809	0.389988	0.391254	0.15714	1	-4	AF188029-7

0.04.474	0.704200								_	
0.81474		. 60	0.008333	809	0.010507		0.0549035	1	2	AF188029-7
0.142015	3.24E-12	60	3.03E-14	809	0.009271			1	-2	AF188029-7
0.417341	2.71092	60	0.008333	809	0.00309	0.003452	0.657791	1	4	AF188029-7
0.449054	2.42E-10	80	6.00E-13	809	0.002472	0.002302	2 0.573038	1	6	AF188029-7
0.417636	1.20832	40	0.525		0.477728					AF287957-1
				449				1	0	
0.058137		40	0.2875	449	0.393096			1	-6	AF287957-1
0.033923	3.45491	40	0.0625	449	0.018931	0.022495	4,4986	1	4	AF287957-1
0.239885	0.464266	40	0.025	449	0.052339	0.050102	1.38127	1	-4	AF287957-1
0.149224	2,4349	40	0.05	449	0.021158					AF287957-1
								1	2	
0.345145	1.90477	40	0.0375	449	0.020045			1	-2	AF287957-1
0.767846	0.745149	40	0.0125	449	0.016704	0.01636	0.0871392	1	-14	AF287957-1
0.368674	1.46881	61	0.057377	867	0.039792				-12	D8S1130
								1		
0.16812	1.33239	61	0.303279	867	0,246251		1.89963	1	4	D8S1130
0.091202	0.642198	61	0.131148	867	0,190311	0.186422	2.85304	1	0	D8S1130
0.699451	1.12656	61	0.106557	867	0.095732	0.096444		1	8	D8S1130
0.868403	0.963438	61	0.221312	867	0,227797		0.0274522	1	-8	D8S1130
0.47914	0.825683	61	0.131148	867	0.154556	0.153017	0.500819	1	-4	D8\$1130
0.941492	0.962366	61	0.032787	867	0.034025	0.033944	0.0053868	1	12	D8S1130
0.857508	0.834711	61	0.008197	867	0.009804			i	` 16	D8S1130
0.522835	1.35E-11	61	2.34E-14	867	0.00173			1	2	D8S1130
0.019548	149070	81	Q.008196	867	5.54E-08	0.000539	5.4518	1	20	D8S1130
0.825877	0.954251	60	0.266667	839	0.275924	0.275308	0.0483969	1	0	D8S1469
0.704363	1.07443	60		839	0.465435					D8S1469
			0.483333					1	4	
0.450413		60	0.175	839	0.148987			1	8	D8S1469
0,270889	2.12565	60	0.025	839	0.011919	0.012792	1.21224	1	12	D8S1469
0.191474	0.538409	60	0.033333	839	0.060191			1	3	D8S1469
0.211151	0.449292	60	0.016667	839	0.036353					
								1	, -4	D8S1469
0.599038	3.19E-12	60	3.80E-15	839	0.001192	0.001112	0.276449	1	7	D8S1469
0.864984	1.03499	52	0.480769	845	0.472189	0.472687	0,0289198	1	0	D8S1695
0.355556	0.793651	52	0.192308	845	0.230769	0.22854		i	8	D8S1695
0.23416	1.54304	52	0.096154	845	0.064497			1	6	D8S1695
0.71935	1.15974	52	0.067308	845	0.05858	0.059086	0.129116	1	10	D8S1695
0.749006	0.90158	52	0.105769	845	0.115976	0.115385		1	4	D8S1695
0,834287	1.13769	52	0.028848	845	0.025444					
							0.0437674	1	12	D8S1695
0.885143	0.900869	52	0.019231	845	0.021302	0.021182	0.0208667	1	2	D8S1695
0.602845	1.81336	52	0.009615	845	0.005325	0.005574	0.270726	1	14	D8S1695
0.36004	8.49E-11	52	3.53E-13	845	0.004142	0.003902		1	16	D8S1695
		52								
0.624919	5.76E-12		6.83E-15	845	0.001183	0.001115		1	-4	D8S1695
0.729607	2.79E-14	52	1.65E-17	845	0.000592	0.000557	0.119473	1	9	D8S1695
0.80841	1.0553	59	0.254237	643	0.244168	0.245014	0.0587953	1	34	D8S1721
0.158461	0.409152	59	0.016949	643	0.040438	0.038462	1.98885	1	36	D8S1721
0.461971	0.864658	59	0.372881	643	0.407465	0.404558	0.541116	1	0	D8S1721
0.595841	1.15963	59	0.144068	643	0.12675	0.128205	0.281315	1	2	D8S1721
0,432878	1.27283	59	0.118644	643	0.095645	0.097578	0.615089	1	4	D8S1721
0.512395	0.541025	59		643						
			0.008475		0.015552	0.014957	0.429173	1	8	D8S1721
0.077508	2.0411	59	0.076271	643	0.03888	0.042023	3.1164	1	24	D8S1721
0,691622	0.678413	59	0.008475	643	0.012442	0.012108	0.157335	1	32	D8S1721
0.129906	3.04E-15	59	3.10E-17	643	0.010109	0.009259	2.29362	1	38	D8S1721
0.348332	7.27E-11	59		843						
			2.84E-13		0.003888	0.003561	0.879525	1	26	D8S1721
0.675145	8.24E-11	59	6.41E-14	643	0.000778	0.000712	0.175643	1	6	D8S1721
0.675145	8.24E-11	59	6.41E-14	643	0.000778	0.000712	0.175643	1	-4	D8S1721
0.467735	6.46E-11	59	1.51E-13	B43	0.002333	0.002137	0,527321	1	30	D8S1721
	8.24E-11									
0.675145		59	6.41E-14	643	0.000778	0.000712	0.175643	1	-2	D8S1721
0.06143	0.704028	62	0.532258	866	0.617783	0.612069	3.49835	1	0	D8S1759
0.634574	1.15865	62	0.104839	866	0.091801	0.092672	0.225909	1	2	D8S1759
0,683338	0.750997	62	0.016129	868	0.021363	0.021013	0.166393	1	8	D8S1769
0.225795	1.52383	62	0.08871						4	D8S1759
				866	0.060046	0.081961	1.46715	1		
0.149653	1.46479	62	0.16129	866	0.116051	0.119073	2.07579	1	12	D8S1759
0.852221	1.07889	62	0.056452	866	0.05254	0.052802	0.0347024	1	10	D8S1759
0.922244	1.07566	62	0.016129	866	0.015012		0.0095271	1	14	D8S1759
0.89257	0.871956	62	0.008065	866	0.009238		0.0182392	1	16	D8S1759
0.880877	1.11934									
		62	0.016129	866	0.014434		0.0224573	1	8	D8\$1759
0.519328	3.81E-10	62	6.62E-13	868	0.001732	0.001616	0.415229	1	-2	D8S1759
0,456297	1.18012	43	0.5	702	0.458689	0.461074	0.554962	1	0	D8S1825
0.24022	0.568227	43	0.046512	702	0.07908	0.077181	1.3793	1	8	D8S1825
0.960318	1.01672		0.127907		0.126068					
		43		702			0.0024755	1	10	DBS1825
0.316577	0.741137	43	0.151163	702	0.193732	0.191275	1.00304	1	6	D8S1825
0.222186	1.48877	43	0.151163	702	0.106838	0.109396	1.48019	1	2	D8S1825
0.361023	2.00E-14	43	1.00E-16	702	0.004986	0.004698	0.834332		-2	
								1		D8S1825
0.647625	1.42961	43	0.023256	702	0.016382		0.208908	1	4	D8S1825
0.440285	7.53E-12	43	2.69E-14	702	0.003561	0.003356	0.595538	· 1	-1	D8S1825
0.195893	8.13E-12	43	8.19E-14	702	0.009972		1.67273	1	12	D8S1825
0.730184	1.47E-10				0.000712	0.000671	0.118943			
		43	1.05E-13	702				1	14	D8S1825
0.753881	1.07363	44	0.375	841	0.358502		0.0982984	1	4	D8S265
0.481601	1.22653	44	0.181818	841	0.153389	0.154802	0.495235	1	0	D8S265
0.078936	9.89E-13	44	1.80E-14	841	0.017838		3.08667	i	ě	D8S265
0.395095	0.684796	44	0.056818	841	0.080856	0.079661	0.723203	1	-5	D8S265
0.897034	0.96109 ·	44	0.147727	841	0.152794	0.152542	0.0167466	1	2	D8S265
0.317205	0.843408	44	0.058818	841	0.085612		1.00044	1	18	D8S265
0.172352	1.82619			841	0.045184	0.046893	1.86238			
		44	0.079546					1	12	D8S265
0.666891	1.17212	44	0.102273	841	0.088585	0.089266	0.18526	1	14	D8S265
0.749417	4.63E-12	44	2.76E-15	841	0.000595	0.000565	0.102022	1	-3	D8S265
						E0				

0.186827	1.32E-11	44	1.35E-13	841	0.010107	0.009605	1.74246	1	16	D8S265
0,474836	1.14E-12	44	3.40E-15	841	0.002973	0.002825	0.5107	1	8	D8S265
0.579995	3.94E-11	44	7.04E-14	841	0.001784	0.001695	0.306242	1	10	D8S265
0.749417	4.63E-12	44	2.76E-15	841	0.000595	0.000565	0.102022	1	20	D8S265
0.749417	4.63E-12	44	2.76E-15	841	0.000595	0.000565	0.102022	1	1	D8S265
	4.63E-12	44	2.76E-15	841	0.000595	0.000565	0.102022	i	-4	D8S265
0.749417			0.090909	762	0.000000	0.091195	6.80E-05	i	o	D8S351
0.993422	0.996403	33							18	D8S351
0.305742	1.35317	33	0.257576	762	0.204068	0.206289		1		
0.430602	1.26016	33	0.257576	762	0.215879	0.21761	0.621199	1	2	D8S351
0.918456	0.864886	33	0.151515	762	0.156168		0.0104814	1	6	D8S351
0.215344	1.06E-11	33	1.26E-13	762	0.011811	0.011321	1.53513	1	10	D8S351
0,603264	0.768725	33	0.060606	762	0.077428	0.07673	0.270101	1	8	D8S351
0.173787	0.31956	33	0.015152	762	0.045932	0.044654	1.84997	1	20	D8\$351
	0.624339	33	0.045455	762	0.070868	0.089811	0.708316	1	4	D8S351
		33	0.106061	762	0.088583	0.089308	0,225878	1	16	D8S351
0.634597	1.22072					0.020755	2.82819	i	14	D8S351
0.092623	1.50E-11	33	3.32E-13	762	0.021654					D8S351
0.274837	2.84E-12	33	2.63E-14	762	0.009186	0.008805	1.19245	1 .	12	
0.33331	3.33405	33	0.015152	782	0.004593	0.005031	0,935995	. 1	-2	D8S351
0.56006	5.87E-14	33	1.54E-16	762	0.002625	0.002518	0,339601	. 1	22	D8S351
0.448788	0.854838	58	0.301724	825	0.335758	0.333522	0.573711	1	-6	D8S503
0,321893	1.2189	58	0.3793,1	825	0.333939	0.33692	0.981241	1	0	D8\$503
0.980215	1.00633	58	0.172414	825	0.171515	0.171574	0.000615	1	-2	D8S503
		58	0.017241	825	0.05697	0.05436	4.40048	1	-4	D8S503
0.035929				825	0.035152	0.03624	0.762346	1	2	D8S503
0.382595	1.49718	58	0.051724					i	-8	D8S503
0.350094	1.42442	58	0.077586	825	0.055758		0.873115			D8S503
0.522981	2.30E-11	58	4.19E-14	825	0.001818	0.001699	0.40801	1	, -10	
0.26815	1.24E-11	58	6.78E-14	825	0.005455	0.005096	1.22619	1	4	D8S503
0.366136	1.20E-13	58	4.38E-16	825	0.003636	0.003398	0.816738	1	-12	D8S503
0.403745	0.855197	62 .	0.548387	876	0.586758	0.584222	0.697146	1	2	D8S516
0.385815	1.21411	62	0.233871	876	0.200913	0.203092	0.752091	1	4	D8S516
	0.948984	62	0.08871	876	0.093037	0.092751	0.0260839	1	D	D8S516
0.907354	1.03746	62	0.096774	876	0.093607		0.0135438	1	-2	D8S518
		62	0.008065	876	0.010845		0.092112	1	-4	D8S516
0.781509	0.74155				0.013128	0.01226	3.16579	i	6	D8S516
0.075196		62	7.90E-20	876			8.45133		8	D8S516
0.003648	14.4546	62	0.024194	878	0.001712			1		D8S520
0.371238	1.19618	57	0.403509	663	0,361237		0.799518	1	6	
0.402548	0.813844	57	0.184211	663	0.217195		0.7007	1	8	D8S520
0.027895	4.30E-13	57	9.62E-15	663	0.02187	0.020139	4.83455	1	10	D8S520
0.62836	1.15818	57	0.122807	663	0.107843	0.109028	0.234292	1	0	D8S520
0.577855		57	0.052632	663	0.065611	0,084583	0.309715	1	-10	D8S520
0.077741	1.65417	57	0.157895	663	0.10181	0.10625	3.1115	1	4.	D8S520
0.222305	1.57E-11	57	1.07E-13	683	0.008787	0.00625	1.48943	1	-12	D8S520
			0.078947	663	0,105581		0.861236	i	2	D8S520
0.353393		57			0.009804	0.009028	2.15454	i	-2	D8\$520
0.142149	5.08E-11	57	5.03E-13	663					12	D8S520
0.585574	2.82E-12	57	4.26E-15	663	0.001508	0.001389	0.330144	1		
0.684583	2.16E-11	57	1.83E-14	663	0,000754	0.000694	0.165012	1	9	D8S520
0.267119	0.808015	58	0.474138	840	0.527381	0.523942	1.23148	1	0	D8S542
0.893055	0.972736	58	0.318965	840	0.325	0.32461	0.018074	1	2	D8S542
0.084254	1.53528	58	0.208897	840	0.145238	0.14922	2.98086	1	4	D8S542
0.526596	5.83E-11	58	1.04E-13	840	0.001786	0.00167	0,400955	1	-2	D8S542
0.714754	5.94E-12	58	3.54E-15	840	0.000595	0.000557	0.133575	1	-12	D8S542
0.930318	1.03058	55	0.090909	814	0.088452		0.0076471	i	-8	D8S550
		55	0.118182	814	0.117936	0.117952	5.98E-05	i	12	D8S550
0.993832	1.00238				0.280098		0.140305	1	14	D8S550
0.707978	0.920186	56	0.263636	814						D8S550
0.305257	0.733118	55	0.109091	814	0.14312		1.05109	1	-2	
0.076296	2.41396	55	0.054545	814	0.023342	0.025317	3.14209	1	8	D8S550
0.204892	1.74582	55	0.063636	814	0.037469	0.039125	1.60716	1	18	D8S550
0.77785	0.894133	55	0.063636	814	0.070639		0.0795925	1	-6	D8S550
0.384808	0.716726	55	0.063636	814		0.085155	0.755287	1	16	D8S550
0.412013	1,36158	55	0.081818	814	0.061425	0.082716	0.672983	1	. 0	D8S550
0.719432	1.14932	55	0.072727	814	0.063882	0.084442	0.129038	1	10	D8S550
0.277346	3.77E-11	55	2.09E-13	814	0.005528	0.005178	1.18005	1	2	D8S550
0.900611	1.09808	55	0.018182	814			0.0155975	1	20	D8S550
		55	2.48E-16	814	0.001229	0.001151	0.261687	1	6	D8S550
0.608964	2.02E-13			814	0.002457		0.523685	i	22	D8S550
0.469274	1.17E-12	55	2.89E-15			0.002302	0.281687			D8S550
0.608964	2.02E-13	55	2,48E-16	814	0.001229			1	4	DGOOAAHBG
0.131551	0.579512	16	0.46875	391	0.603581	0.59828	2.2741	1	1	
0.131551	1.72559	16	0.53125	391	0.396419	0.40172	2.2741	1	2	DG00AAHBG
0.285177	0.773002	41	0.646341	725		0.699739	1.14225	1	2	DG00AAHBH
0.285177	1.29368	41	0.353659	725	0.297241	0.300261	1.14225	1	1	DG00AAHBH
0.382271	0.808631	38	0.631579	811	0.680025	0.677856	0.763387	1	3	DG00AAHBI
0.382271	1.23972	38	0.368421	811		0.322144	0.763387	1	1	DG00AAHBI
0.302271	1.3071	52	0.240385	531		0.198971	1.17681	i	ò	DG8S117
			0.759615	531		0.801029	1.17681	i	· ě	DG8S117
0.278007	0.765052	52		826	0.912228		0.0012612	1	ő	DG8S118
0.971671	0.988415	62	0.91129							
0.971671	1.01172	62	0.08871	826	0.087772		0.0012612	1	5	DG8S118
0.335458	0.818662	52	0.394231	604	0.442881	0.439024	0.927712	1	0	DG85127
0.888013	0.956222	52	0.115385	604	0.120033	0.119665	0.01983	1	6	DG8S127
0.258737	1.26033	52	0.490384	604	0.432947	0.4375	1.2755	1	1	DG8S127
0.362993	1.54E-12	52	6.38E-15	604	0.004139	0.003811	0.827511	1	2	DG8S127
0.847624	1,04506	56	0.758929	648	0.750774		0.0369218	1	0	DG8\$128
	0.956886	56	0.241071	646			0.0369218	i	4	DG8S128
0.847624	Ø00000.0	20	0.2-71011					•		
				L	IC 11	1 II				

0.893296	0.973154	56	0.366072	772	0.372409	0.371981	0.0179922	· 1	4	DG8S130
0.256885	0.800914	56	0.482143	772	0.537565	0.533816	1,28547	1	0	DG8S130
0.169927	1.8395	56	0.0625	772	0.034974		1.88359	1	-16	DG8S130
0.540972	1,63315	56	0.017857	772	0.01101	0.011473	0.373742	i	-4	DG8\$130
		56	0.0825	772	0.036917	0.038647		i	8	DG8S130
0.208801	1.73918						1.57972			
0.358847	7.02E-11	56	2.74E-13	772	0.003886		0.841924	1	-12	DG8S130
0.173265	6,94598	56	0.008929	772	0.001295			1	12	DG85130
0.516655	1.44E-10	56	2.80E-13	772	0.001943	0.001812	0.420566	1	-8	DG8S130
0.94086	0.980424	60	0.85	739	0.852503	0.852315	0.0055041	1	0	DG8S134
0.877445	0.959107	60	0.141667	739	0.14682			1	4	DG8S134
	12.4118	60	0.008333	739	0.000677	0.001252	2.5681	i	. 2	DG8S134
0.109039									ō	DG8S136
1	1	57	0.657895	779	0.657895		. 0	1		
0.648818	1.1734	57	0.087719	779	0.075738	0.076555	0.207393	1	-6	DG8S138
0.605035	1.24131	57	0.081404	779	0.050064	0.050837	0.267469	1	2	DG8S136
0.359938	1,41477	57	0.078947	779	0.057125	0.058612	0.838111	1	-4	DG8S136
0.113172	0.4357	57	0.026316	779 -	0.058408	0.05622		1	4	DG8S138
0.112226	0.373997	57	0.017544	779	0,045571	0,04366	2.52259	1	6	DG8S136
					0.030167			1.	-2	DG8S136
0.812303	0.868891	57	0.026316	779						
0.243919	1.98701	57	0.035088	779	0.017972	0.019139	1.3578	.1	8	DGBS138
0.400351	7.17E-13	57	2.31E-15	779	0.003209	0.00299	0.707272	1	-8	DG8S136
0.594973	6.71E-12	57	8.62E-15	779	0.001284	0.001196	0.282645	1	10	DG8S136
0.707013	8.09E-11	57	5.20E-14	779	0.000842	0.000598	0.141279	1	-10	DG8S136
0.253998	4.58704	57	0.008772	779	0.001926	0,002392		1	-14	DG8S136
0.604575	0.779604	11	0.272727	234	0.324786	0,322449	0.268151	i	-2	DG8S137
										DG8S137
0.33397	1.95338	11	0.136363	234	0.074786	0.077551	0.933443	1	2	
0.90172		11	0.045455	234	0.051282		0.0152496	1	10	DG8S137
0.398795	0.458876	11	0.045455	234	0.094017			1	٠ 4	DG8S137
0.291975	1.90022	11	0.181818	234	0.104701	0,108163	1,11049	1	6	DG8S137
0.960863	0.963635	11	0.090909	234	0.094017	0.093878	0.0024079	1	-4	DG8S137
0.631526	0.768256	11	0.181819	234	0.224359	0.222449	0.229998	1	0	DG8S137
				234	0.017094	0.018367	0.680111	i	12	DG8S137
0.409548	2.73812	11	0.045455							
0.667845	3.71E-10	11	1.59E-12	234	0.004274	0.004082		1	18	DG85137
0.761687	2.17E-10	11	4.64E-13	234	0.002137	0.002041	0.0919703	1	14	DG8S137
0.543528	7.21E-11	11	6.21E-13	234	0.008547	0.008163	0.36904	1	8	DG8S137
0.368532	0.7517	55	0.1	761	0.128778	0.126838	0.815387	1	-1	DG8S138
0.356408	1.33812	55	0.9	761	0.870565	0.872549	0.850512	1	0	DG8\$138
0.708673	1.75E-12	55	1.15E-15	761	0.000657	0.000613	0.139606	1	1	DG8S138
								i	ó	DG8S147
0.887346	1.03081	49	0.408163	585	0.400855		0.0200685			
0.900469	0.973571	49	0.591837	585	0.598291		0.0156423	1	2	DG8S147
0.688292	4.37E-11	49	3.73E-14	585	0.000855	0.000789	0.16094	1	1	DG8S147
0.636815	0.830118	59	0.059322	694	0.070605	0.069721	0.223198	1	-4	DG8S148
0.545287	1.13556	59	0.305085	694	0.278818	0.280876	0.365829	1	2	DG8S148
0.245471	0.761008	59	0.194915	694	0.241354	0.237716	1,34889	1	-2	DG8S148
		59		694	0.376081	0.377822	0.227103	i	ō	DG85148
0.633681	1.09821		0.398305							
0.89712	1.07176	59	0.033898	694	0.0317		0.0167185	1	4	DG8S148
0.023917	109517	59	0.008474	694	7.80E-08	0.000864	5.10067	1	6	DG8S148
0.567669	1.72E-10	59	2.48E-13	694	0.001441	0.001328	0.326599	1	-17	DG8S148
0.263405	1.34158	31	0.5	473	0.427061	0.431548	1.25077	1	-2	DG8S153
0.857201	0.928867	31	0.112903	473	0.120507	0.12004		1	0	DG8\$153
0.165944	1,45E-15	31	2.34E-17	473	0.015856	0.014881	1,91921	i	-6	DG8S153
	0,994838	31	0.048387	473	0.048626	0.048611	7.18E-05	1	2	DG8S153
0.99324										
0.960209	1.01975	31	0.129032	473	0.12685		0.0024892	1	6	DG8S153
0.072949	4.56E-12	31	1.24E-13	473	0.026427	0.024802	3.21539	1	14	DG8S153
0.332639	0.666577	31	0.096774	473	0.138478	0.135913	0.938597	1	8	DG8\$153
0.743331	0.823731	31	0.048387	473	0.05814	0.05754	0.10722	1	10	DG8S153
0.410177	1.7307	31	0.048387	473	0.028541	0.029762	0.878288	1	4	DG8S153
0.425003	1.20E-11	31	6.38E-14	473	0.005285	0.00496	0.63644	1	12	DG8S153
0.296624	3,86065	31	0.016129	473	0.004228	0.00496	1.08931	1	-4	DG8S153
			0.333334	453	0.311258	0.3125		i	4	DG8S155
0.735263	1.10639	27				0,5,20	01.1.100.7			
0.488737	1.35035	27	0.12963	453	0.099338	0.101042	0.479305	1	8	DG8S155
0.975996	0.985593	27	0.092592	453	0.093819		0.0009053	1	2	DG8\$155
0.304698	0.700246	27	0.185185	453	0.245033	0.241667	1.05352	1	6	DG8S155
0.742857	0.724364	27	0.018519	453	0.025386	0.025	0.107632	1	14	DG8S155
0.823623	1,10598	27	0.111111	453	0.101545	0.102083	0.0496789	1	0	DG8S155
0.684405	0.787116	27	0.055556	453	0.069536	0.08875	0.16521	<u>i</u>	10	DG8S155
				453	0.04415		0.0647029	i	12	DG8S155
0.799212	0.832691	27	0.037037							
0.07759	17.0753	27	0.018518	453	0.001104	0.002083	3.11467	1	-16	DG8S155
0.555291	3.06E-11	27	1.02E-13	453	0.003311	0.003125	0.347924	1	-10	DG85155
0.73358	5.32E-10	27	5.87E-13	453	0.001104	0.001042	0.11585	1	-2	DG8\$155
0.555291	3.06E-11	27	1.02E-13	453	0.003311	0.003125	0.347924	1	18	DG8S165
0.07759	17.0753	27	0.018518	453	0.001104	0.002083	3.11467	1	-12	DG8\$155
0.180234	1.29628	58	0.446429	777	0.383526	0.387755	1.7158	1	6	DG8S158
					0.568211	0.563625	1.9614	i	Ö	DG85156
0.161363	0.75991	58	0.5	777						
0.810832	1.13757	58	0.035714	777	0.031532		0.0572898	1	-6	DG8S156
0.249986	4.65763	58	0.008929	777	0.001931	0.002401	1.32338	1	3	DG8S156
0.58993	0.599689	56	0.008929	777	0.014801	0.014406	0.290454	1	9	DG8S156
0.271315	0.652005	51	0.911765	556	0.940648	0.938221	1.21009	1	0	DG8S159
0.373416	1.47229	51	0.068627	556	0.047682	0.049423	0.792264	1	-2	DG8S159
			0.019608	556	0.011691	0.012356	0.414294	i	2	DG8\$159
0.519798	1.69077	51 50			0.42381		0.0442757			DG8\$161
0.833341	0.959682	58	0.413793	735 735				1	0	
0.833341	1.04201	58	0.586207	735	0.57819		0.0442757	1	2	DG8S161
0.904333	1.02303	60	0.475	815	0.469325		0.0144454	1	0	DG85163
						- A				

83/90

0.904333	0.977488	60	0.525	815	0 520675	0 520206	0.0144454	1	3	DG8S163
0.368949	1.21796	48	0.375	759	0.33004	0.332714		1	0	DG8S170
0.473152	0.8554	48	0.614583	759	0.650856	0.648699	0.514605	1	2	DG8S170
0.695445	0.684212	48	0.010417	759	0.015152	0.01487	0.153254	1	-4	DG8S170
0.620301	9.85E-13	48	1.30E-15	759	0.001318			1	-19	DG8S170
0.620301	9.85E-13	48	1.30E-15	759	0.001318	0.001239		1	-8	DG8S170
0.620301	9.85E-13	48	1.30E-15	759	0.001318	0.001239	0.245444	1	-2	DG8S170
0.114214	0.728131	57	0.359849	643	0.435459	0.429286	2,49492	1	14	DG8S177
0.909639	1.1292	57	0.008772	643	0.007776	0.007857		1	20	DG8S177
0.314179	1.2498	57	0.280702	643	0.237947			1	12	DG8S177
0.567176	0.817801	57	0.078948	643	0.094868	0.093571	0.32743	1	18	DG8S177
0.559832	2.02E-10	57	3.15E-13	643	0.001555	0.001429	0,339998	1	2	DG8\$177
0.453995	1.32747	57	0.078947	643	0.060653	0.062143		1	ō	DG8S177
0.662838	1.13278	57	0.140351	643	0.125972			1	16	DG8S177
0.387023	1,49758	57	0.052632	643	0.03577	0.037143	0.748274	1	10	DG8S177
0.660657	1.09408	52	0.548077	622	0.525723	0.527448	0.192727	1	0	DG8S179
	0.914005	-52	0.451923		0.474277	0.472552		1	7	DG8\$179
0.660857				622						
0.28668	0.784423	57	0.22807	625	0.2736	0.269795		1	10	DG8\$181
0.5118	0.861652	57	0.236842	625	0.2648	0.282463	0.430386	1	12	DG8S181
0.099905	0.561959	57	0.070176	625	0.1184	0.11437	2.70706	· 1	4	DG8S181
0.585288	1.19538	57	0.105263	625	0.0896	0.090909		1	Ó	DG8S181
0.170625	1.43453	57	0.18421	625	0.136	0.140029		1	8	DG85181
0.139686	2.48889	57	0.035088	625	0.0144	0.016129	2.18142	1	16	DG8S181
0.877448	0.911411	57	0.026316	625	0.0288	0.028592	0.0237791	1	18	DG8S181
0.249849	1,52807	57	0.087719	625	0.0592			1	14	· DG8S181
					0.0032					DG8S181
0.082771	5.56247	57	0.017544	625				1	-2	
0.774579	1,3739	57	0.008772	625	0.0064	0.008598	0.0820192	1	, 2	DG8\$181
0,268346	4.85E-12	57	2.62E-14	625	0.0058	0.005132	1.22518	1	6	DG8S181
0.154481	0.604252	44	0.875	818	0.920538			1	0	DG8S182
0.154481	1.65495	44	0.125	818	0.079462		2.02743	1	-3	DG8\$182
0.918548	1.02608	47	0.765957	641	0.76131	0.761628	0.0104576	1	Ο,	DG8S188
0.918548	0.974583	47	0.234043	641	0.23869	0.238372	0.0104576	1	-1	DG8S188
0.500557	1,17799	37	0.594595	568	0.554577	0.557025	0.453756	i	ò	DG8S192
0.330595	1.3395	37	0.216216	568	0.170775		0.946565	1	2	DG8S192
0.058589	2.08E-12	37	5.25E-14	568	0.024648	0.023141	3.57689	1	16	DG8S,192
0.59723	0.798803	37	0.081081	568	0.099472	0.098347	0.279193	1	-2	DG8\$192
0.678379	0.808381	37	0.054054	568	0,066021	0.065289	0.171956	1	4	DG85192
0.426469	5.26E-12	37	2.33E-14	568	0.004401		0.63242	1	8	DG8S192
0,523483	0.724957	37	0.054054	568	0.073063	0.071901	0.407025	1	12	DG8S192
0.61522	2.80E-12	37	4.94E-15	568	0.001761	0.001853	0.252644	1	-4	DG8S192
0.476998	3.49E-10	37	1.23E-12	568	0.003521	0.003306	0.50572	1	10	DG8S192
0.61522	2.80E-12	37	4.94E-15	568	0.001761	0.001653	0.252644	1	14	DG8S192
0.546339	0.890507	62	0.60483 9	730	0.632192	0.630051	0.363916	1	0	DG8S197
0.546339	1.12296	62	0.395161	730	0.367808	0.369949	0.363916	1	1	DG8S197
0.238022	1.253	60	0.558333	677	0.502216	0.506784	1.39227	1	Ó	DG8S201
0.978142	0.994481	60	0.333333	677	0.334564		0.0007507	1	4	DG8S201
0.192591	0.666738	60	0.091667	677	0.131482	0.128223	1.89769	1	-2	DG8S201
0.317853	0.516752	60	0.016867	677	0.031758	0.030529	0.99776	1	2	DG8S201
0.73154	1.17218	62	0.959877	735	0.953061	0.953576	0.117702	1	0	DG8S212
	0.853125	62		735	0.046939	0.046424			2	DG8S212
0.73154			0.040323				0.117702	1		
0.58951	0.870115	35	0.614286	392	0.646684	0.644028	0.291109	1	4	DG8S215
0.560161	1,1622	35	0.385714	392	0.350765	0.35363	0.339425	1	0	DG8\$215
0.558385	1.05E-12	35	2.68E-15	392	0.002551	0.002342	0.342508	1	2	DG8S215
0.087153	1,4521	51	0.45098	292	0.381301	0.374636	2,92619	i	Ö	DG8S221
									5	DG85221
0.31001	1.26739	51	0.323529	292	0.273973	0.281341	1.03063	1		
0.027024	0.474098	51	0.088235	292	0.169521	0.157434	4.88927	1	-2	DG8S221
0.278737	0.540566	51	0.029412	292	0.053082	0.049563	1.17324	1	7	DG8S221
0.295148	0.888172	51	0.088235	292	0.123288	0.118076	1.09599	1	4	DG8S221
0.740381	0.712872	51	0.009804	292	0.013699	0.01312	0.109792	1	1	DG8S221
0								•	•	DG8S221
0.570284	1.42E-14	51	2.44E-17	292	0.001712	0.001458	0.322208	1	8	
0.423644	2.88119	51	0.009804	292	0,003425	0.004373	0.640186	1	-1	DG8S221
0.288824	1.2375	58	0.37931	726	0.330579	0.334184	1.1251	1	0	DG8S232
0.816519	0.954799	58	0.37069	728	0.381543	0.38074	0.0538355	1	2	DG8S232
0,310151	0.742327	58	0.112069	726	0.145317	0.142857	1.03003	i	- 8	DG8S232
0.867702	0.942197	58	0.077586	726	0.081956		0.0277481	1	-4	DG8S232
0.207478	0.445618	58	0.017242	726	0.037879	0.036352	1.58894	1	4	DG8S232
0.126512	2.29086	58	0.043103	726	0.019284	0.021046	2.33479	1	-2	DG8S232
0.694959	1.33E-12	58	9.19E-16	726	0.000689	0.000638	0.153769	i	-6	DG8S232
0,432654	3.68E-15	58	1.02E-17	726	0.002755	0.002551.	0.615689	1	6	DG8S232
0.089413	1.94577	62	0.951613	672	0.90997	0.913488	2.88491	1	٥	DG8S238
0.089413	0.513937	62	0.048387	672	0.09003	0.086512	2,88491	1	-8	DG8S238
0.274709	0.76358	37	0.581081	476	0.644958	0.640351	1.19308	1	4	DG8S242
	1.30982				0.355042		. 1.19308		ő	DG8S242
0.274709		37	0.418919	476				1		
0.045473	2.18298	59	0.949153	468	0.895299	0.901328	4.00101	1	0	DG8S245
0.657445	0.826128	59	0.050848	468	0.060897	0.059772	0.196643	1	-4	DG8\$245
0.002114	4.43E-13	59	1.93E-14	468	0.041667	0.037002	9,44796	1	4	DG8S245
0.49051	2.61E-14	59	5.60E-17	468	0.002137	0.001898	0.475408	1	-8	DG8S245
0.53694	0.881381	52	0.538461	682	0.569648	0.567439	0.381241	1	0	DG8S249
0.446947	1.21329	52	0.211539	682	0.181085	0.183243	0.578382	1	-19	DG85249
0.545259	0.566061	52	0.009615	682	0.016862	0.016349	0.36588	1	-17	DG8\$249
0.618479	0.6209	52	0.009615	682	0.015398		0.248011	1	-21	DG8S249
					0.098241	0.097411	0.155398			
0.693429	0.869599	52	0.086538	682			J. 133386	1	-2	DG8S249
				E	TIC 11					

84/90

0.348212	2.20916	52	0.019231	682	0.008798	0.009537	0.879961	1	6	DG8S249
0.144024	1.84322	52	0.076923	682	0.043255	0.04584	2.13443	i	2	DG8S249
						0.015668	3.40783		-6	DG8S249
0.064888	3.14E-12	52	5.38E-14	682	0.016862			1		DG8S249
0.11288	1.22E-11	52	1.54E-13	682	0.012463	0.01158	2.51343	1	4	
0.413523	1.51515	52	0.048077	682	0.032258	0.033379	0.668649	1	-4	DG8S249
0.309862	3.95E-12	52	2.04E-14	682	0.005132	0.004768	1.03126	1	-1	DG8S249
0.19623	1.62032	61	0.081967	584	0.052226	0.055039	1.67021	1	-10	DG8S250
0.574063	0.880554	61	0.221311	584	0.244007	0.24186	0.315932	1	-4	DG8S250
0.296023	1.32061	61	0.163934	584	0.129281	0.132558	1.09203	1	2	DG8S250
					0.190068	0.193023	0,670878	i	4	DG8\$250
0.412746	1.2111	61	0.221311	584						
0.689122	1.16071	61	0.073771	584	0.064212	0.065118	0,160038	1	-2	DG8S250
0.045952	0.620924	61	0.172131	584	0.250856	0.243411	3.98337	1	0	DG8S250
0.138411	2.45E-13	61	2.33E-15	584	0.009418	0.008527	2.19554	1	8	DG8S250
0.178086	2.65164	61	0.02459	584	0.009418	0.010853	1.81352	1	-8	DG8S250
0.796756	0.829713	61	0.016394	584	0.019692		0.0863309	1	8	DG8S250
					0.012843	0.012403	0,218311	i	-12	DG8S250
0.64033	0.635261	61	0.008197	584 .						DG8S250
0.874558	1.12843	61	0.016393	584	0.014555	0.014729		1	. -6	
0.372264	3.74E-12	61	1.28E-14	584	0.003425	0.003101	0,796093	1	12	DG8S250
0.725989	1.07153	61	0.647541	680	0.631618	0.632928	0,122826	1	0	DG8S257
0.270525	0.546218	61	0.02459	680	0.044118	0.04251	1.21408	1	-6	DG8S257
0.819751	0.954377	61	0.303279	680			0.0519225	1	-2	DG8S257
				680	0.010294	0.010796	0.341499	1	2	DG8S257
0.558965	1.6024	61	0.016394					i	-9	DG8S257
0.121356	11.2314	61	0.008197	680	0.000735	0.00135	2.39973			
0.639807	1.12067	55	0.218182	637	0.199372		0.218995	1	15	DG8S258
0.319529	1.22222	55	0.6	637	0.55102	0.554913	0.990872	1	18	DG8S258
0.102499	1.10E-11	55	1.40E-13	637	0.012559	0,011561	2.66622	1.	0	DG8\$258
0.076313	0.624114	55	0.145455	637	0.214286	0.208815	3.14173	1	. 12	DG8S258
0.564768	3.16E-15	55	4.98E-18	637	0.00157	0.001445	0.331515	1	24	DG8S258
							0.272405	i	21	DG8S258
0.601723	1.40074	55	0.027273	637	0.019623	0.020231				
0.564768	3.16E-15	55	4.98E-18	637	0.00157	0.001445	0.331515	1	33	DG8S258 ·
0.024305	143973	55	0.00909	637	6.37E-08	0.000723	5.07274	1	11	DG8S258
0.421668	0.8133	37	0.662162	549	0.706739	0.703925	0.645661	1	2	DG8S261
0.421668	1.22956	37	0.337838	549	0.29326	0.296075	0.645661	1	0	DG8S261
0.685216	0.75139	37	0.027027	561	0.035651	0.035117	0.164313	1	-4	DG8S262
			0.513513	561	0.529412		0.0703492	i	ď	DG8S262
0.790829	0.93827	37							-10	DG8S262
0.832714	1.09169	37	0.094595	561	0.087344	0.087793		1		
0.646493	1.13866	37	0.243243	561	0.220143		0.21035	1	2	DG8S282
0.65731	0.732383	37	0.027027	561	0.036542	0.035953	0.196808	1	-2	DG8\$282
0.835834	1.10586	37	0.067568	561	0.081497	0.061873	0.0429424	· 1	4	DG8S262
0,509432	1.70371	37	0.027027	561	0.016043		0,435233	1	6	DG8S262
	2.33E-11	37	2.30E-13	561	0.009804		1.41185	1	-14	DG8S262
0.234749				561	0.003565	0.003344	0.511843	i	8	DG8S262
0.474342	5.07E-11	37	1.81E-13							
0.320699	1.25582	60	0.233333	751	0.195073	0.197904	0.986093	1	15	DG8S265
0.855426	0.965833	60	0.55	751	0.558589	0.557953		1	18	DG8S265
0.08648	6.77E-12	60	8.67E-14	751	0.01265	0.011714	2.9387	1	0	DG8S265
0.48687	0.845934	60	0.183333	751	0.20972	0.207768	0.483436	1	12	DG8S265
0.600177	1.40076	60	0.025	751	0.017976	0.018496	0.274729	1	21	DG8S265
0.579128	3.48E-12	60	4.64E-15	751	0.001332		0.307647	i	33	DG8S265
					0.00466	0.004932	0,257106	i	-6	DG8\$265
0.612115	1.79472	60	0.008333	751						DG8\$266
0.758941	0.938379	51	0.441177	615	0.456911		0.0941703	1	-2	
0.375468	1.20102	51	0.480392	615	0.434959	0.438438	0.785488	1	0	DG8\$266
0.330063	0.701968	51	0.078431	615	0.10813	0,105856	0.948651	1	-4	DG8\$268
0.862197	0.966728	60	0.383333	741	0.391363	0,390762	0.0301294	1	-4	DG8S269
0.509778	0.881533	60	0.55	741	0,580972	0.578852	0.434526	1	0	DG8S269
	2.51045	60	0.066667	741	0,027665	0.030587	4.41061	1	-5	DG8S269
0.035718					0.304233	0.000007		i	-2	DG8\$271
0.173805	0.672634	33	0.227273	567			1.84982			
0.217974	1.38912	33	0.681818	567	0.606702	0.610833	1.51766	1	0	DG8S271
0.430147	0.674487	33	0.060606	567		0.085833	0,622428	1	2	DG85271
0.011843	17.6876	33	0.030303	567	0.001764	0.003333	6.3342	1	4	DG8S271
0.912134	0.89298	58	0.008621	674	0.009644	0.009583	0.0121764	1 '	· -6	DG85277
0.94707	1.01449	58	0.275862	674	0,272997	0.273224	0.0044071	1	10	DG8S277
0.056017	1.47874	58	0.37089	874	0,284866		3.65156	1	0	DG8S277
		58		674	0.077151		0.118521	i	-2	DG85277
0.730644	1,12844		0.086207			0.237705				DG8\$277
0.075152	0.647866	58	0.172414	674			3.16675	1	2	
0,289543	0.597743	58	0.034483	674		0,054645	1.12175	1	8	DG8S277
0.940706	1.05742	58	0.017241	674	0.016321		0.0055327	1	4	DG8S277
0.22211	1.36E-13	58	9.13E-16	674	0.006677	0.006148	. 1.49069	1	-4	DG8\$277
0.254078	2,21016	58	0.025862	674	0.011869	0.012978	1.30074	1	6	DG8S277
0.45351	0.500945	58	0.008621	674		0.016393	0.561863	i	12	DG8S277
	4.45E-11	58	1.66E-13	674	0,003709		0.826977	i	14	DG8\$277
0.363148							0.446328		0	DG8\$285
0.504084	1.15686	48	0.625	576	0.590278			1		
0.395359	0.820477	48	0.28125	576		0.319712	0.722397	1	2	DG85285
0.664895	1.18625	48	0.083333	576	0.071181		0.187632	1	1	DG8S285
0.6726	0,663154	48	0.010417	576	0.015625	0.015224	0.178576	1	-1	DG8\$285
0.356563	0,835858	61	0.565574	500	0.609		0.849961	1	0	DG8\$291
0.104377	0.36212	61	0.016393	500	0.044		2.63735	i	-2	DG8S291
		61	0.229508	500	0,234		0.0123005	i	4	DG8S291
0.91169	0.975087									
0.016273	1.91592	61	0.180328	500	0.103		5.77312	1	2	DG8S291
0.844816	0,818186	61	0.008197	500	0.01		0.038313	1	6	DG8S291
0.83931	0.953758	47	0.702128	729	0,711934		0.0411182	1	2	DG8S292
0.83931	1.04849	47	0.297872	729	0.288068	0.28866	0.0411182	1	0	DG8S292
0.403875	0.81928	54	0.212963	727		0.245839	0.698758	1	12	DG8S297
					-10 4					

0.167267	7 1.32613	54	0.416667	727	0.350069	0.35467	3 1.90727	1	0	DG8S297
0.584603		54	0.111111	727	0.129986			í	4	DG85297
0.43227		54	0.148148	727	0.121733			i	16	DG8S297
0.06839	· · · · · · · · · · · · · · · · · · ·	54	2.41E-13	727	0.015818	0.01472		i	8	DG8S297
0.049136		54	0.027778	727	0.00619			1	-4	DG8S297
0.561417		54	0.027778	727	0.019257		0.337267	1	18	DG85297
0.389089		54	0.009259	727	0.019945			1	· 6	DG8S297
0.530464		54	0.018519	727	0.028198			1	10	DG85297
0.704978		54 54	0.027778	727	0.053645			1	14	DG8S297
0,255396		54 54	1.66E-14	727	0.00088				2	DG8S297
0.501664		80	1.68E-13 0.791667	727	0.00619			1	-2	DG8S297
0.48337		60	0.781007	726 726	0.816804 0.174242			1	0	DG8S298
0.94407		60	0.008333	726	0.174242		0.49125	1	2	DG8S298
0.446864		60	0.841667	602	0.813953			1	1	DG85298
0.446864		60	0.158333	602	0.186047			1	0	DG8S301
0.756783		59	0.330508	688	0.344595		0.0959195	i	1	DG8S301
0.676336	0.881765	59	0.110169	668	0.123123			i	26 24	DG8S302 DG8S302
0.798986	1.05355	59	0.330509	666	0.319069		0.0648514	i	28	DG8S302
0.354682		59	0.076271	666	0.054805			i	30	DG8S302
0.866434		59	0.152542	666	0.158408		0.0282879	i	0	DG8\$302
0.716308		50	0.77	756	0.753968			i	2	DG8S303
0.511442		50	0.01	756	0.00463	0.004963	0.431115	Ì	4	DG8S303
0.634817		50	0.22	758	0.240741		0.225585	1	-2	DG8S303
0.720383		50	1.42E-15	756	0.000881		0.128126	1	0	DG8S303
0.403115		27	0.203704	315	0.15873		0.699016	1	, 0	DG8S307
0.649847		27 27	0.666667	315	0.707936		0.398517	1	4	DG8S307
0.631224		27	0.074074	315	0.092064			1	-4	DG8S307
0.230715		55	0.055556 0.572727	315 689	0.04127 0.630624		0.230404	1	8	DG85307
0.859933		55	0.172727	689	0.030624		1.43645	1	0	DG8\$308
0.342117		55	0.118182	689	0.100163	0.09207		1	2	DG8S308
0.158839	1.68961	55	0.090909	689		0.058468	0.902483 1.98525	1	-14 -4	DG8S308
0.20954	0.341997	55	0.009091	689	0.026125	0.024866	1.5746	1	- -	DG8S308 DG8S308
0.09531	1.16E-15	55	1.53E-17	689		0.012097	2.78232	ì	-2	DG8S308
0.229603	2.04227	55	0.036364	689		0.019489	1.44332	i	4	DG8S308
0.233649		61	1.34E-14	660	0.006061		1.41851	í	8	DG8S316
0.90597	0.97619	61	0.311475	660	0.316667	0.316227	0.0139532	i	10	DG8S316
0.917848		61	0.42623	660	0.431061	0.430652	0.0106387	1	. 0	DG8S316
0.492863	0.803044	61	0.090164	660	0.109848	0.108183	0.47027	1	12	DG8S316
0.378811	1.28211	61	0.139344	660	0.112121	0.114424	0.774558	1	14	DG8S316
0.334599	1.75593	81	0.032787	660	0.018939	0.020111	0.931016	1	16	DG8S316
0.265328 0.427873	3.41E-11 0.807637	61 31	1.82E-13	660	0.005303	0.004854	1.24074	1	2	DG8S316
0.637181	1.34977	31	0.354839 0.048387	808	0.405116	0.402669	0.628589	1	2	DG8S322
0.188944	1.4144	31	0.451613	606 606	0.036304	0.038892	0.222449	1	10	DG8S322
0.145344	0.499649	31	0.084518	608	0.367987 0.121287	0.372057 0.118524	1.72584	1	0	DG8S322
0.738106	1,17794	31	0.080645	608	0.069307	0.069859	2.12045	1	4	DG8S322
0.858146	1.0385	62	0.733871	700	0.726429		0.111799 0.0319461	1	6	DG8S322
0.858146	0.96293	62	0.266129	700	0.273571	0.272986		1	0 5	DG8\$323
0.737494	0.93203	60	0.283333	695	0.297842	0.296689	0.112342	i	ő	DG8S323 DG8S324
0.891325	1.08814	60	0.025	695		0.023179	0.018667	i	10	DG8S324
0.451315	,0.836462	60	0.191667	695	0,220863	0.218543	0.567348	i	8	DG8S324
0.784209	1.08289	60	0.125	695	0.116547	0.117219	0.0749874	1	ē	DG8S324
0.949648	1.01838	60	0.125	695	0.123022		0.0039878	i	4	DG8S324
0.610258	1.12657	60	0.216667	695		0.198676	0.259799	1	2	DG8\$324
0.433781	1.56322	60	0.033333	695		0.022517	0.612678	1	12	DG8S324
0.424208	0.782798	56	0.107143	726		0.131074	0.638627	1	-4	DG8S332
0.776846 0.374309	1.10954 0,812204	58 56	0.080357	728			0.0804817	1	4	DG8S332
0.605398	0.885167	56	0.214286 0.214286	726	0.251377		0.789309	1	2	DG8S332
0.285308	1.26095	56	0.303571	726 726	0.235537 0.256887		0.266934	1	-2	DG8S332
0.231896	2.03133	58	0.035714	726	0.233887	0.26023	1.14164	1	0	DG8S332
0.504794	1.3969	56	0.044643	726		0.018162	1.4292	1	-6	DG85332
0.542218	0.868101	51	0.264706	539		0.290678	0.444843 0.371444	1	8	DG8S332
0.542218	1.15194	51 .	0.735294	539		0.709322	0.371444	1	-5 0	DG8S333 DG8S333
0.178207	0.769592	61	0.352459	764		0.409697	1.81251	i	1	SG08S100
0.178207	1.29939	61	0.647541	764		0.590303	1.81251	i	2	SG08S100
0.084572	0.706471	58	0.396551	387		0.470787	2.97477	i	1	SG08S102
0.084572	1.41548	58	D.603448	387		0.529213	2.97477	i	2	SG08S102
0.637875	0.908047	61	0.647541	390	0.669231	0.666297	0.221532	1	ō	SG08S112
0.837875	1.10127	61	0.352459	390	0.330769	0.333703	0.221532	i	2	SG08S112
0.527988	1.12903	60	0.583333	700		0.555921	0.398263	1	ō	SG08S120
0.527988	0.885714	60	0.416867	700		0.444079	0.398263	1	2	SG08S120
0.405963	0.838721	60	0.708333	746			0.690592	1	0	SG08S138
0.405963 0.866941	1.19229 0.968661	60	0.291667	748			0.690592	1	2	SG08S138
0.866941	1.03235	61 61	0.557377 0.442623	713		0.564599 0		1	0	SG08S15
0.168402	1.29721	61	0.516394	713 701).435401 O		1	2	SG08S15
	0.770884	61	0.483607	701	0.451498 ().456693).549307	1.89711	1	0	SG08S26
0.145968	1.3272	81	0.516393	397	0.445844	0.45524	1.89711 2.11388	1	2	SG08S26
	0.753463	61	0.483607	397	0.554156	0.54476	2.11388	1	2	SG08S27
	-							•	1	SG08S27

				_						
0.223599	0.782321	58	0.560345	397	0.619647	0.612088	1.48112	1	1	SG08S32
0.223599	1.27825	58	0.439655	397	0.380353	0.387912	1.48112	1	0	SG08532
0.308774	1.22057	61	0.639344	618	0.592233	0.596465	1.03591	1	1	SG08S35
0.308774	0.819292	61	0.360656	618	0.407767	0.403535	1.03591	1	2	SG08535
0.518451	0.883656	61	0.487213	523	0.498088	0.494863	0.416973	1	1	SG08S39
0.518451	1,13166	61	0.532787	523	0.501912	0.505137	0.416973	1	0	SG08S39
0.533866	1.12929	59	0.415254	689	0.386067	0.388369	0.387027	1	0	SG08S42
0.533866	0.885511	59	0.584748	689	0.613933	0.611631	0.387027	1	2	SG08S42
0.854111	1.14576	61	0.114754	610	0.101639	0.102832	0.200758	1	1	SG08S46
0.654111	0.872787	61	0.885246	610	0.898361	0.897168	0,200756	1	3	SG08S46
0.189	0.776046	59	0.542373	743	0.604307	0.599751	1.72539	1	0	SG08S5
0.189	1.28858	59	0.457827	743	0.395693	0.400249	1.72539	1	2	SG08S5
		59 59	0.466102	685	0.438686	0.44086	0.330178	1	2	SG08S50
0.565554	1,11705		0.533898	685	0.561314	0.55914	0.330178	i	ō	SG08S50
0.585554	0.895211	59 57		381	0.547244	0.535388	3.29983	i	ŏ	SG08S506
0.069287	0.693897	57	0.456141		0.452756	0.464612	3.29983	i	2	SG08S506
0.069287	1.44114	57	0.54386	381,	0.452756	0.355263	1.88409	i	2	SG08S507
0.16987	0.75	60	0.3	396		0.644737	1.88409	i	3	SG08S507
0.16987	1,33333	60	0.7	396	0.636364			1	1	SG08S508
0.276852	0.802329	58	0.387931	392	0.441326	0.434444	1.18248	- 1	á	SG08S508
0.276852	1.24637	58	0.612069	392	0.558674	0.565556	1.18248	1	· 1	SG08S510
0.463684	1.20429	58	0.818965	371	0.789757	0.793708	0.536987		ó	SG08S510
0.463684	0.830365	58	0.181035	371	0.210243	0.206294	0.536987	1.	1	SG08S511
0.897524	1.02652	58	0.413793	362	0.407459	0.408333		1		SG08S511
0.897524	0.974165	58	0.586207	362	0.592541		0.0165867	1	3 2	SG08S512
0.538636	1.1332	57	0.429825	388	0.399484	0.403371	0.378074	1		SG08S512
0.538636	0.882455	57	0.570175	388	0.600516	0.596628	0.378074	. 1	1	
0.276978	0.807854	61	0.418032	392	0,470663	0.463576	1.18186	' 1	ı 1	SG08S517
0.276978	1.23785	61	0.581967	392	0.529337	0.536424	1,18186	1	3	SG08S517
0.246826	1.25791	61	0.814754	397	0.559194	0.566594	1.34118	1	1	SG08S520
0.246826	0.794971	· 61	0.385246	397	0.440806	0.433406	1,34118	1	0	SG08S520
0.998424	0.899561	5 9	0.728813	391	0.7289	0.728889	3.90E-06	1	2	SG08S6
0.998424	1.00044	59	0.271187	391	0.2711	0.271111	3.90E-06	1	0	SG08S6
0.200406	0.775538	59	0.440878	380	0.503947	0.495444	1.63941	1	1	SG08S70
0.200408	1.28943	59	0.559322	380	0.496053	0.504556	1,83941	1	3	SG08S70
0.073231	1.40539	61	0.590164	740	0.506081	0.512484	3,20907	1	0	SG08S71
0.073231	0.711544	61	0.409836	740	0.493919	0.487516	3,20907	1	2	SG08S71
0.252356	0.7983	60	0.458333	378	0.51455	0.506849	1.31021	1	3	SG08S73
0.252356	1,25266	60	0.541667	378	0.48545	0.493151	1,31021	1	1	SG08S73
0.830216	0.958777	60	0.466667	394	0.477157	0.475771	0.0459779	1	1	SG08S76
0.830216	1.043	60	0.533333	394	0.522843	0.524229	0.0459779	1	2	SG08S76
D.781553	1.0559	60	0,525	394	0.511421	0.513216	0.0788933	1	0	SG08S90
0.781553	0.947063	60	0.475	394	0.488579	0.486784	0.0768933	1	1	SG08S90
0.234935	0.760584	62	0.774194	705	0.81844	0.814863	1.41073	1	1	SG08S93
0.234935	1.31478	62	0.225806	705	0.18156	0.185137	1.41073	1	2	SG08S93
0.402568	0.83199	56	0.294643	362	0.334254	0.328947	0.700643	1	0	SG08S94
0.402568	1.20194	56	0.705357	362	0,665746	0.871053	0.700643	1	2	SG08S94
0.124832	1,34391	60	0.483333	586	0.41041	0.417183	2,35562	1	2	SG08S95
0.124832	0.744099	60	0.516667	586	0.58959	0.582817	2.35582	1	3	SG08S95
0.965393	1.00838	61	0.581967	613	0.579935	0.580119	0.0018825	1	2	SG08S96
0.965393	0.991686	61	0,418033	613	0.420065	0.419881	0.0018825	1	3	SG08S98
0.500983	0.81986	61	0.877049	713	0.896914	0.895349	0.452853	1	0	\$G08\$97
0.500983	1.21972	81	0.122951	713	0,103086	0.104651	0.452853	1	1	SG08S97
5.500000	1.2.14/2	٠.	3,							

87/90

FIG. 12A

<u>Table 2a. Allelic frequencies for markers strongly correlated to the orientation.</u>

100.0 20.7 11.01.	<u> </u>	10.00 TOT 1110	F
1 .		<u> </u>	ō
1		<u>=</u>	~ 1
		o	<u> </u>
		Ę	<u> </u>
		· S	Ę I
		Frequency on inverted form	Frequency on common for
		5	Ē
		0	2
		<u> </u>	े ह
		듄	8 I
1 \$	<u>o</u>	2	Ž
arker	Allele	ĕ	မွ် ၂
\	₹		
AF131215-2	0	0.067	0.839
AF131215-2	4	0.896	0.121
AF131215-2	8		
		0.037	0.040
D8S1695	0	0.083	0.749
D8S1695	2	0.000	0.025
D8S1695	4	0.092	0.151
D8S1695	6	0.129	0.012
D8S1695	8	0.596	0.036
D8S1695	10	0.081	0.013
D8S1695	12	0.020	0.014
DG00AAHBG	1	0.253	0.837
DG00AAHBG	2	0.747	0.163
DG8S127	0	0.055	0.741
DG8S127	1	0.935	0.098
DG8S127	6	0.010	0.161
DG8S156	-6	0.051	0.000
DG8S156	0	0.181	0.806
DG8S156	6	0.744	0.194
DG8S156	9	0.025	0.000
DG8S161	ō	0.074	0.688
DG8S161	2	0.926	0.312
DG8S163	0	0.947	0.154
DG8S163	3	0.053	0.846
DG8S170	-4	0.038	0.000
DG8S170	Ö	0.651	0.135
	0		
DG8S170	2	0.310	0.865
DG8S179	0	0.082	0.795
DG8S179	7	¹ 0.918	0.205
DG8S197	Ô	0.149	0.902
DG8S197	1	0.851	0.098
DG8S242	0	0.751	0.121
DG8S242	4	0.249	0.879
DG8S257	-9	0.000	0.006
DG8S257	-6	0.116	0.031
DG8S257	-2	0.628	0.054
DG8S257	0	0.256	0.884
DG8S257	2	0.000	0.025
DG8S261	Ō	0.726	0.075
	2		0.925
DG8S261		0.274	
DG8S269	-5	0.030	0.003
DG8S269	-4	0.891	0.102
	-		

FIG. 12B

Table 2a. Allelic frequencies for markers strongly correlated to the orientation.

Table 2a.	Allelic frequenci	es for n	narkers stror	igly correlated to the orientation.
	-	Frequency on inverted form		
		₹	Ē	
		ğ	e l	
		Ş.	Ē	
		₽.	3	
		ᅙ	5	
		₹	ર્જ	
5	_	ᅙ	en en	•
. Ž	<u> </u>	퓿	Frequency on common fo	ŕ
Marker	Allele	표	F	
DG8S269	0	0.079	0.894	
SG08S102	1	0.076	0.765	
SG08S102	2	0.924	0.235	
SG08S120	0	0.159	0.858	
\$G08\$120	2	0.841	0.142	
SG08S138	0	0.391	0.939	
SG08S138	2	0.609	0.061	
.SG08S15	0	0.158	0.805	
SG08S15	2	0.842	0.195	
SG08S26	0	0.841	0.167	
SG08S26	2	0.159	0.833	
SG08S27	1	0.136	0.831	
SG08S27	2	0.864	0.169	
SG08S32	0	0.771	0.108	
SG08S32	1	0.229	0.892	X.
SG08S5	0	0.087	0.902	
SG08S5	2	0.913	0.098	
SG08S508	1	0.081	0.680	
SG08S508	3	0.919	0.320	
SG08S517	1	0.075	0.767	
SG08S517	3	0.925	0.233	
SG08S520	. 0 1	0.080	0.683	
SG08S520 SG08S70	1	0.920 0.074	0.317 0.766	
	·•			
	-			
	3			
SG08S70 SG08S71 SG08S71 SG08S73 SG08S73 SG08S76 SG08S76 SG08S95 SG08S95	3 0 2 1 3 1 2 2	0.926 0.928 0.072 0.924 0.076 0.030 0.970 0.905 0.095	0.234 0.226 0.774 0.236 0.764 0.716 0.284 0.093 0.907	

89/90

Association of Drug Response to surrogate marker alleles - Combined SNRI and SSRIs

Marker	Position	Allele	Relative risk	#aff	R freq	#ctrl	NR freq	X2	p-value
DG8S269	8.71376	-4	1.417	71	0.394	27	0.315	1.076	0.300
SG08S95	10.9769	G	1.340	99	0.475	36	0.403	1.109	0.292
SG08S5	11.02427	G	1.531	99	. 0.460	35	0.357	2.239	0.135
SG08S71	11.0543	Α	2.050	99	0.646	35	0.471	6.515	0.011
SG08S73	11.08065	С	2.189	94	0.590	34	0.397	7.522	0.006
									Ē.
Marker	Position	Allele	Relative risk		VGR freq	#ctrl	NR freq	X2	p-value
Marker DG8S269	Position 8.71376	Allele		#aff 32	VGR freq 0.391	#ctrl 27		X2 0.737	p-value 0.391
			1.395		•	27	0.315		0.391
DG8S269	8.71376	4	1.395 1.624	32	0.391	27	0.315 0.403	0.737	0.391 0.130
DG8S269 SG08S95	8.71376 10.9769	4 G	1.395 1.624 1.884	32 44	0.391 0.523	27 36 35	0.315 0.403 0.357	0.737 2.296	0.391 0.130 0.052

Marker = name of marker

Position = position of marker in Build 33

Allele: A,C,G, or T for the SNPs; and the offset from CEPH for DG8S269

aff = number of Responders or Very Good Responders

R freq/VGR freq = frequency of allele in Responders/Very Good Responders

ctrl = number of Non Responders

NR freq = frequency of allele in Non-Responders

X2 = Chi squared value

Association of Drug Response to surrogate marker alleles - Venlafaxine

Marker	Position	Allele	Relative risk	#aff	R freq	#ctrl	NR freq	X2	p-value
DG8S269	8.71376	-4	1.510	24	0.292	14	0.214	0.557	0.4554
SG08S95	10.9769	G	1.291	32	0.422	18	0.361	0.356	0.5505
SG08S5	11.02427	G	1.779	32	0.406	18	0.278	1.684	0.1945
SG08S71	11.0543	Α	2.184	32	0.609	18	0.417	3.451	0.0632
SG08S73	11.08065	С	2.425	32	0.578	18	0.361	4.384	0.0363
Marker	Position	Allele	Relative risk	#aff	VGR freq	#ctrl	NR freq	X2	p-value
Marker DG8S269	Position 8.71376	Allele -4		#aff 10	VGR freq 0,250		•	X2 0.084	p-value 0.7722
			1.222		•	14	0.214		0.7722
DG8S269	8.71376	-4	1.222 1.769	10	0.250	14 18	0.214 0.361 0.278	0.084 1.294 3.448	0.7722 0.2554 0.0633
DG8S269 SG08S95	8.71376 10.9769	-4 G	1.222 1.769 2.600	10 15	0.250 0.500	14 18 18	0.214 0.361 0.278	0.084 1.294	0.7722 0.2554 0.0633

90/90

Association of Drug Response to surrogate marker alleles - Fluoxetine

Marker	Position	Allele	Relative risk	#aff	R freq	#ctrl	NR freq	X2	p-value
DG8S269	8.71376	-4	1.105	34	0.441	12	0.417	0.043	0.8349
SG08S95	10.9769	G	1.637	49	0.510	18	0.389	1.565	0.2110
SG08S5	11.02427	G	1.264	49	0.469	17	0.412	0.340	0.5601
SG08S71	11.0543	Α	1.882	49	0.653	18	0.500	2.559	0.1097
SG08S73	11.08065	С	1.463	46	0.565	17	0.471	0.893	0.3447
Marker	Position	Allele	Relative risk	#aff	VGR freq	#ctrl	NR freq	X2	p-value
Marker DG8S269	Position 8.71376	Allele -4		#aff 13	VGR freq 0.462		•	X2 0.102	p-value 0.7494
	•		1.200		•	12	0.417		0.7494
DG8\$269	8.71376	-4	1.200 2.200	13	0.462 0.583	12 18	0.417 0.389	0.102	0.7494 0.0978
DG8\$269 SG08S95	8.71376 10.9769	-4 . G	1.200 2.200 1.429	13 18	0.462 0.583	12 18 17	0.417 0.389 0.412	0.102 2.742	0.7494 0.0978 0.4585

Association of Drug Response to surrogate marker alleles - Citalopram or escitalopram

Marker	Position	Allele	Relative risk	#aff	R freq	#ctrl	NR freq	X2	p-value
DG8S269	8.71376	-4	2.200	26	0.423	8	0.250	1.621	0.2029
SG08S95	10.9769	G	1.667	33	0.455	9	. 0.333	0.865	0.3524
SG08S5	11.02427	G	2.303	33	0.470	9	0.278	2.205	0.1375
SG08S71	11.0543	Α	3.333	33	0.667	8	0.375	4.503	0.0338
SG08S73	11.08065	С	4.750	31	0.613	8	0.250	6.913	0.0086
•	•								
Marker .	Position	Allele	Relative risk	#aff	VGR freq	#ctrl	NR freq	X2	p-value
Marker DG8S269		Allele		#aff 12	•		•	X2 0.697	•
			1.800		0.375	. 8	0.250	0.697	•
DG8S269	8.71376	-4	1.800 1.714	12	0.375	· 8	0.250 0.333	0.697 0.730	0.4039
DG8S269 SG08S95	8.71376 10.9769	-4 G	1.800 1.714 3.033	12 13	0.375 0.462	· 8 9 9	0.250 0.333 0.278	0.697 0.730 3.016	0.4039 0.3928

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.